ERSC 2P18
Library Assignment & Orientation

Ian Gordon & Nicole Stradiotto

Ian Gordon, Teaching & Learning Librarian

Nicole Stradiotto, Data Services Librarian

ERSC 2P18 - Library Assignment

Agenda

Review the assignment
Library’s Earth Sciences Research Guide
Databases – we have lots of them
Citation management zoterobib & Zotero
Geoscience maps, data and resources

Practice / Q&A

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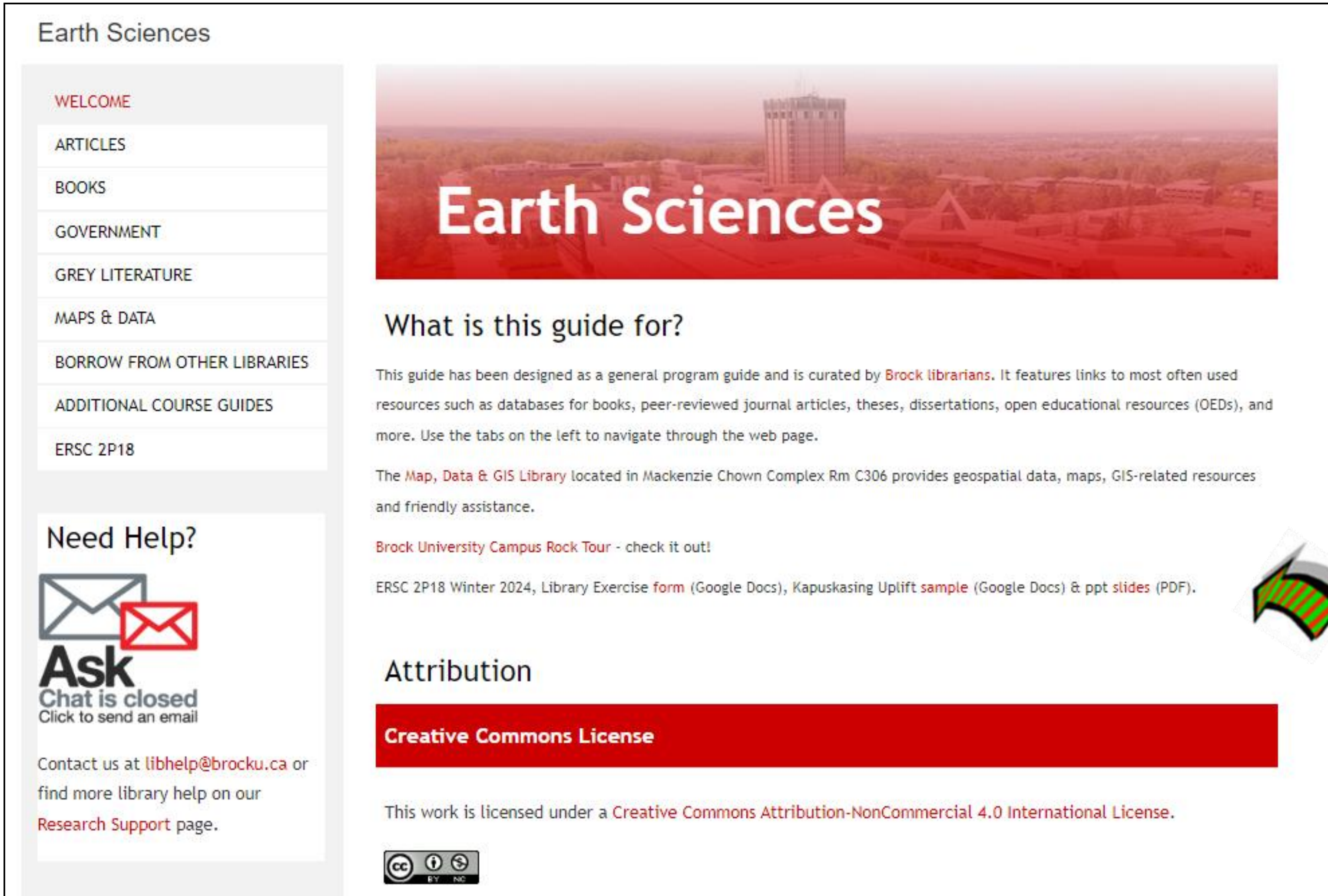
https://researchguides.library.brocku.ca/ERSC



Earth Sciences

WELCOME
ARTICLES
BOOKS
GOVERNMENT
GREY LITERATURE
MAPS & DATA
BORROW FROM OTHER LIBRARIES
ADDITIONAL COURSE GUIDES
ERSC 2P18

Need Help?

Ask
Chat is closed
Click to send an email

Contact us at libhelp@brocku.ca or find more library help on our Research Support page.

Earth Sciences

What is this guide for?

This guide has been designed as a general program guide and is curated by Brock librarians. It features links to most often used resources such as databases for books, peer-reviewed journal articles, theses, dissertations, open educational resources (OEDs), and more. Use the tabs on the left to navigate through the web page.

The Map, Data & GIS Library located in Mackenzie Chown Complex Rm C306 provides geospatial data, maps, GIS-related resources and friendly assistance.

Brock University Campus Rock Tour - check it out!

ERSC 2P18 Winter 2024, Library Exercise form (Google Docs), Kapuskasing Uplift sample (Google Docs) & ppt slides (PDF).

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ERSC 2P18 - Library Assignment

This assignment will serve to familiarize you with the services available in the James A. Gibson Library to assist you in locating resources relevant to Earth Sciences. Each student must select one Earth Science related topic from the list below. Note resources including a "Kapuskasing Uplift" completed example available on the Brock Library Research Guide for Earth Sciences under the ERSC 2P18 tab.

The report for your library assignment will consist of a one page (yes! just one page), single-sided, single-spaced 'information' sheet on your selected topic and must contain the following (see the sample layout):

1) A legible location map (with citation reference) of the feature described;

2) A definition/description of the topic/feature chosen, highlighting - what it is, where it is, how old it is in geological terms, relation to geological plates/zones;

3) Significance to earth science – why it is important, how does it relate to plate tectonics;

4) A citation list of the three most useful references (post 1990, APA works) with URL links, at least one citation must be a peer-reviewed scholarly article;

5) A list of the 5-9 most productive database keywords/phrases you searched that describe this feature in the earth sciences literature.

Sample Search Topics

Belcher fold, Cape Smith belt, Fox River belt, Great Lakes tectonic zone, Great Slave Lake shear zone, Killarney magmatic zone, Keweenawan rift, Thompson Nickle belt, Hearne province, Rae Province, Slave Province, Superior Province, Nain Province, Torngat orogen, Wopmay orogen, Penokean Terrane, Grenville orogen, Snowbird tectonic zone, Cape Smith belt, New Quebec orogen, Thelon orogen, Great Slave Lake shear zone, Queen Maud uplift, Coronation Supergroup, McDonald-Bathurst fault system, Tulemalu Lake fault zone, Baker Lake basin, Kisseynew Domain, La Ronge belt, Flin Flon Belt, Lynn Lake belt, New Quebec orogen, Abloviak shear zone, Komaktorvik shear zone, Foxe fold belt, Hottah terrane, Nahanni belt, Reindeer Zone, Needle Falls shear zone, Thompson Nickel Belt, Narsajuaq Arc, Sugluk Group, Sask Craton, Grenville Front Tectonic Zone, Central Gneiss Belt, Wawa Gneiss Terrane, Parry Sound Domain, Central Metasedimentary Belt, Britt Domain, Sudbury Igneous Complex, Abitibi Greenstone Belt, Kenoran Orogeny, Mackenzie Dyke Swarm, Grenvillian Orogeny, Birch-Uchi Greenstone Belt, Avalonia Terrane, Bancroft Terrane, Quesnel Terrane, Cache Creek Terrane, Stikinia Terrane, Intermontane belt, Alexander Terrane, Wrangellia Terrane, Insular Terrane, Meguma Terrane, Cassiar Terrane, Yukon Tanana group, Mazinaw Terrane, Quesnel Terrane, Gagnon Terrane, Omineca Belt

or a **pre-approved** Canadian topic of your choice.

Your Name:

Feature Name:

Map significance:

Location Map (must be legible)

Feature significance to Earth Science:

Citation References:

Keywords:

Your Name:

Feature Name:

Map significance:

Feature significance to Earth Science:

Citation References:

Keywords:

Location Map (must be legible)

ERSC 2P18 Library Assignment

Ian Gordon, igordon@brocku.ca

Feature Name: Kapuskasing Uplift (KU)

Definition/Description: The KU is a geological Northern Ontario Canadian Shield Superior Province 500 km long that runs from Lake Superior to James Bay, is approximately 3.6 to 2.75 Ga in age, tectonically stable, northeast-trending, fault-bounded structure that divides the Superior Province into eastern and western halves. This uplift with moderate dipping units of 25-35 km in depth, with 60-70 degrees northwest plate dip, with 7-10 km displacement is complete with exposed thrusts, marginal rifting, mafic dyke swarms, and localized high-grade metamorphism.

Source: Jackson, S. L. & Fyon, J. A. (1991). The Western Abatibi Subprovince in Ontario. In P. C. Thurston et. al. (Eds.), *Geology of Ontario Special Volume 4, Part 1,* (pp. 405-482). Toronto: MNDM. (p. 406).

Map significance: This base geological structure area map (Jackson & Fyon, 1991) best depicts geological provinces together with geographic, political and plate boundaries as well as including a clear delineation of the KU feature as best depicted from recent survey data. This map is clear to follow, identifies and illustrates the proximity of the Abitibi subprovince, regional plate-like structures, and the central Superior Province as the largest geological Province of the Canadian Shield in Ontario. The map's title, scale and author are not noted and like so many geological maps it was pulled and modified from a previous 1986 source. A clean geological map that has been reproduced in several other texts and online images.

Feature significance to Earth Science: The KU structure was first documented by researchers up to the 1970s through major gravity and aeromagnetic anomaly measurements with related research first published in the 1980s to the present. Tectonic investigations of staged folding of large converging plates together with submarine volcanism, tectonic thickening of sediment-laden metamorphosed structures, and large-scale terminal subduction creating sizable complex crustal-scale shear zones. Significance is twofold 1) a relatively easily accessible geological area that led to further investigations of theoretical deep-earth faulting, intracontinental plate movements, and batholith emplacement studies, and 2) the study of localized metamorphosed alkalic, carbonatic intrusions, greenschist-facies, cataclastic, gold, copper, mineral bearing rock structures along easily identifiable, accessible, commercially viable, and shallow regional shear zones.

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Keywords: Canadian Shield, Kapuskasing Uplift, Superior Province, Archean, plate boundaries, faulting, shear zones.

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Selected Features

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ERSC 2P18 Library Assignment

Your Name / Email Address:

Feature Name:

Definition/Description:

Map significance:

Feature significance to Earth Science:

Location Map

Source:

Citation References (indicate which citations are peer-reviewed scholarly articles):

1.
2.
3.
4.
5.

Keywords:

Feature Name

Location map of your choosing, full citation below map

Definition/Description

Comment on the significance of this map

Why is this feature significance to Earth Science / plate tectonics?

5 Citation References, 1990+, highlight which two are peer reviewed articles

5-9 keywords

On one single page!

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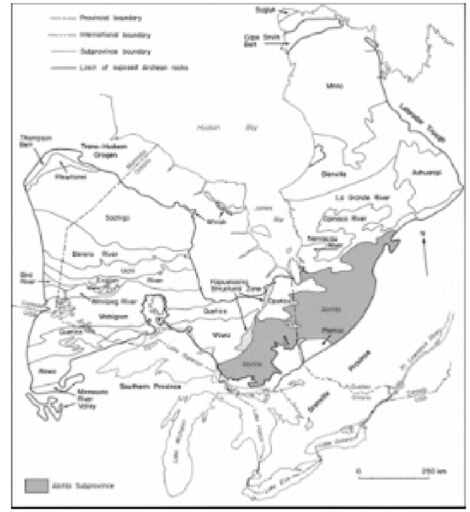

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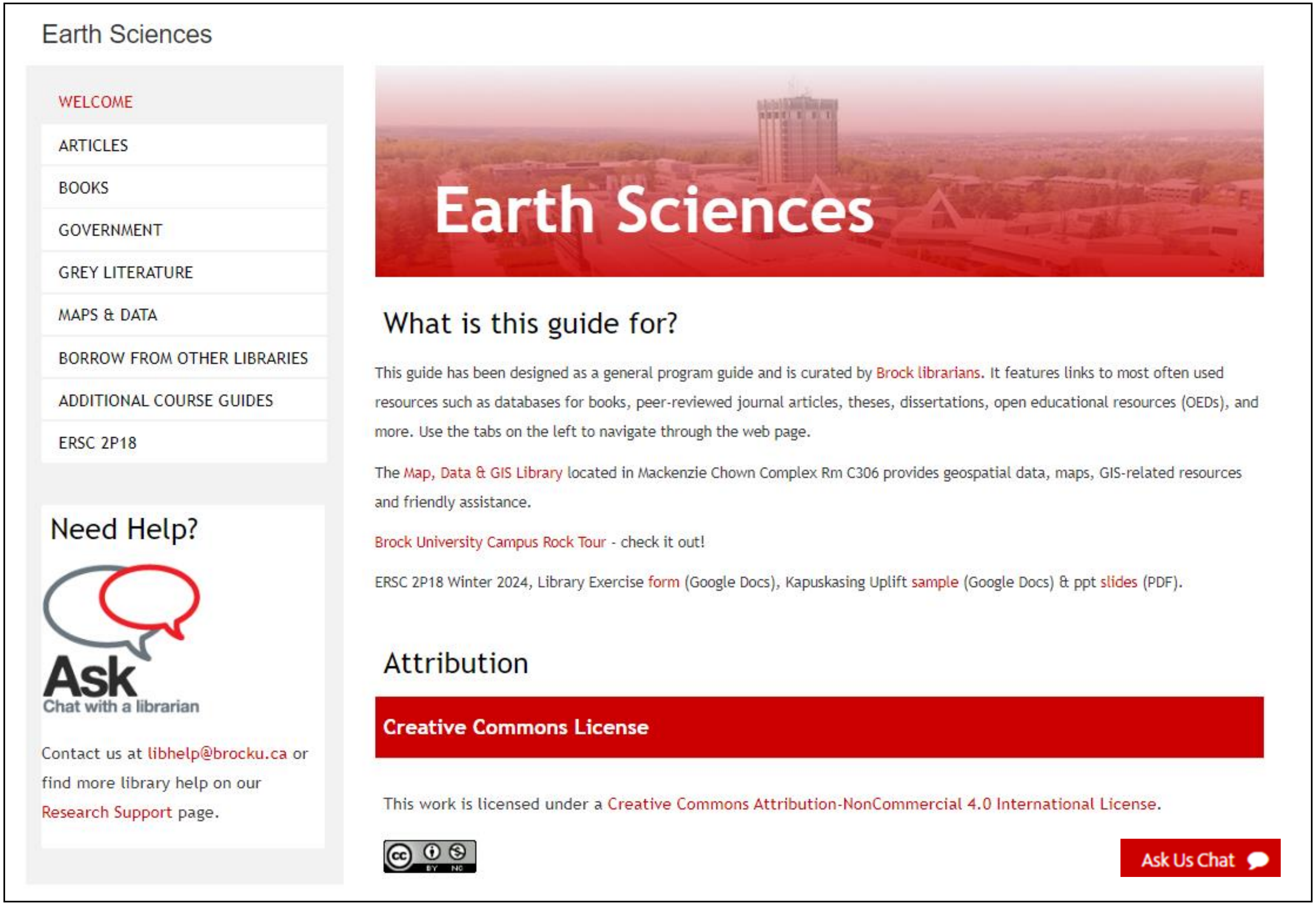

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Library Seminar Resources for ERSC 2P18 Assignment

Information and Resources provided as part of a ERSC 2P18 Winter 2024 seminar.

Library Seminar slides (Jan 23, 2024, PDF)

ERSC 2P18 Library Assignment Form (Google Docs)

ERSC 2P18 Completed Library Assignment Kapuskasing Uplift (Google Docs)

What's Peer Review? (YouTube, Brock Library, 2021, 1:33)

How to Reference Geospatial Data, Maps, Atlases, Air photos (PDF, Brock MDG Library)

- Brock Library Article Databases
  There are several databases that index and abstract the world's research. Those used for this assignment may include Omni, Google Scholar, and GeoRef (a must use!). Databases that scan full-text resources of articles include GeoScienceWorld, BASE, CORE, and Scholars Portal E-Journals. Your task is to find at least five post 1990 resources with two being peer-reviewed scholarly articles.

- GeoRef
  - International coverage of earth sciences, geology and related geosciences literature.
  - Find journal articles, books and book chapters, conference papers, government publications, geological surveys, theses, dissertations, reports, and maps.
  - Includes: The U.S. Geological Survey library in Reston, VA (1967 to date), the Bibliography of North American Geology (1785-1970), the Bibliography and Index of Geology Exclusive of North America (1933-1968), Bibliography of Fossil Vertebrates (1973-1991), and Geophysical Abstracts (1951-1971) and select records from Geoline (1985 -), PASCAL (1982 -), and several state and national geologic surveys.
  - Permitted Uses

  more info...
- GeoScienceWorld
  - A comprehensive resource for research and communications in the geosciences linked to, and inter-operable with GeoRef.
  - All journals have a minimum of one back year, but most start in the year 2000, there is also an archive of pre-2000 articles from the Millennium Collection.
  - Permitted Uses
- Web of Science Core Collection
  - Scholarly resources across all disciplines
  - Access to Cited Reference searching.
  - Includes Proquest Dissertations and Theses Citation Index.
  - Permitted Uses

  more info...
- GeologyOntario

  Search using this database by keyword and phrases to find alternate resources to learn more about the significance of your topic, find a map or develop a list of additional keywords. This database does not incude journal articles, but does include essential references on Ontario geology published by government researchers. Your task is to find a Geological Survey of Ontario Report or a series of maps and data that supplements your feature. Again, only Ontario.
- GEOSCAN (Canada GSC)

  Publications of the Geological Survey of Canada and the Canada Centre for Remote Sensing Canada Topographic Maps. GEOSCAN links to external publications including journal articles, open source publications, and reports authored by ESS scientists and specialists.

Books and resources of supplementary interest:

- List of Canadian, provincial, and regional geology surveys, agencies and departments (Manitoba, Economic Development, Investment, Trade and Natural Resources)
- Plate Tectonics: Continental Drift and Mountain Building (course textbook, 1st edition, 2011)
- Plate Tectonics: Continental Drift and Mountain Building (course textbook, 2nd edition, 2020, on order)
- Geology of Ontario (2 volumes, Brock Library print copy, 1991-92, OGS)
- Geology of Ontario (GeologyOntario, PDF, downloadable volume 1 copy, 1991-92, OGS)
- Geology of Ontario (GeologyOntario, PDF, downloadable volume 2 copy, 1991-92, OGS)
- Fifty years of the Wilson Cycle Concept in Plate Tectonics (2019, Geological Society)
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- Geological Evolution of North America (1979, 3rd ed)
- Continents and Supercontinents (2004)
- Exposed Cross-sections of the Continental Crust (1990)
- Plate Tectonics and Crustal Evolution (note different print and older ebook editions, Condie)
- Decade of North American Geology (1986, 36 volumes, classic description of NA geology, including tectonic plates, ask for help finding the volume and corresponding map sets)
- Regional Stratigraphy of North America (1987)
- Large Igneous Provinces (2014)
- Plate Boundaries and Natural Hazards (2016)
- This Dynamic Earth: The Story of Plate Tectonics (USGS)
- Plate Tectonics and Great Earthquakes: 50 Years of Earth-Shaking Events (2019)
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- Principles of Rock Deformation and Tectonics (2021, based on lab, teaching and field experiences)
- The Tectonic Plates are Moving (2018, gotta read chapter titled Plate Tectonics by Jerks)
- Geology of the Canadian Shield in Ontario: An Update (2007, GSC Open File 5511,PDF)
- The Geology of North America: An Overview (1989, a classic NA resource similar to the Geology of Ontario, GSA)
- Plate Tectonic Evolution from 1 Billion Years ago to the Present (2021, EarthByte, YouTube, 40 seconds)
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- Regional Geology and Tectonics: Principles of Geologic Analysis (2020)
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Geology Related Links

Provincial & Territorial Governments of Canada

Earth Sciences Resources Catalogue of Publications
Natural Resources Canada: Earth Sciences

Canada - Federal

Department of Finance Canada
Innovation, Science and Economic Development Canada
Canadian Primary Metals Industry
Natural Resources Canada
Minerals and Metals Facts
Mining Taxation in Canada
Minerals and Metals Markets
Canadian Mineral Production
Statistics Canada

Canadian Geological Surveys

Geological Survey of Canada

Alberta
British Columbia
New Brunswick
Newfoundland & Labrador
Northwest Territories
Nova Scotia
Nunavut
Ontario
Prince Edward Island
Québec
Saskatchewan
Yukon

Associations of Canada

Canadian Institute of Mining, Metallurgy and Petroleum
Geological Association of Canada
Mining Association of Canada
Prospectors & Developers Association of Canada (PDAC)

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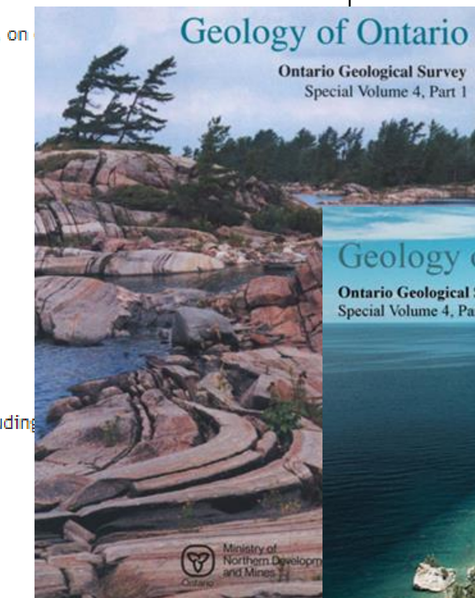

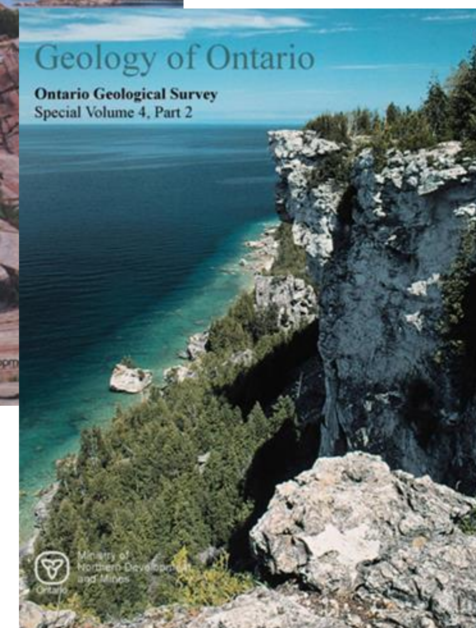

Ontario Geological Survey

Special Volume 4

Part 1

Geology of Ontario

Edited by

P.C. Thurston, H.R. Williams,
R.H. Sutcliffe and G.M. Stott

1991

Ministry of
Northern Development
and Mines

Ontario

OBM · MNDM · MDNM ·

Milne, V. G., Thurston, P. C., Williams, H. R., Sutcliffe, R. H., & Stott, G. M. (1991). Geology of Ontario: 1. Ministry of Northern Development and Mines, Ontario.

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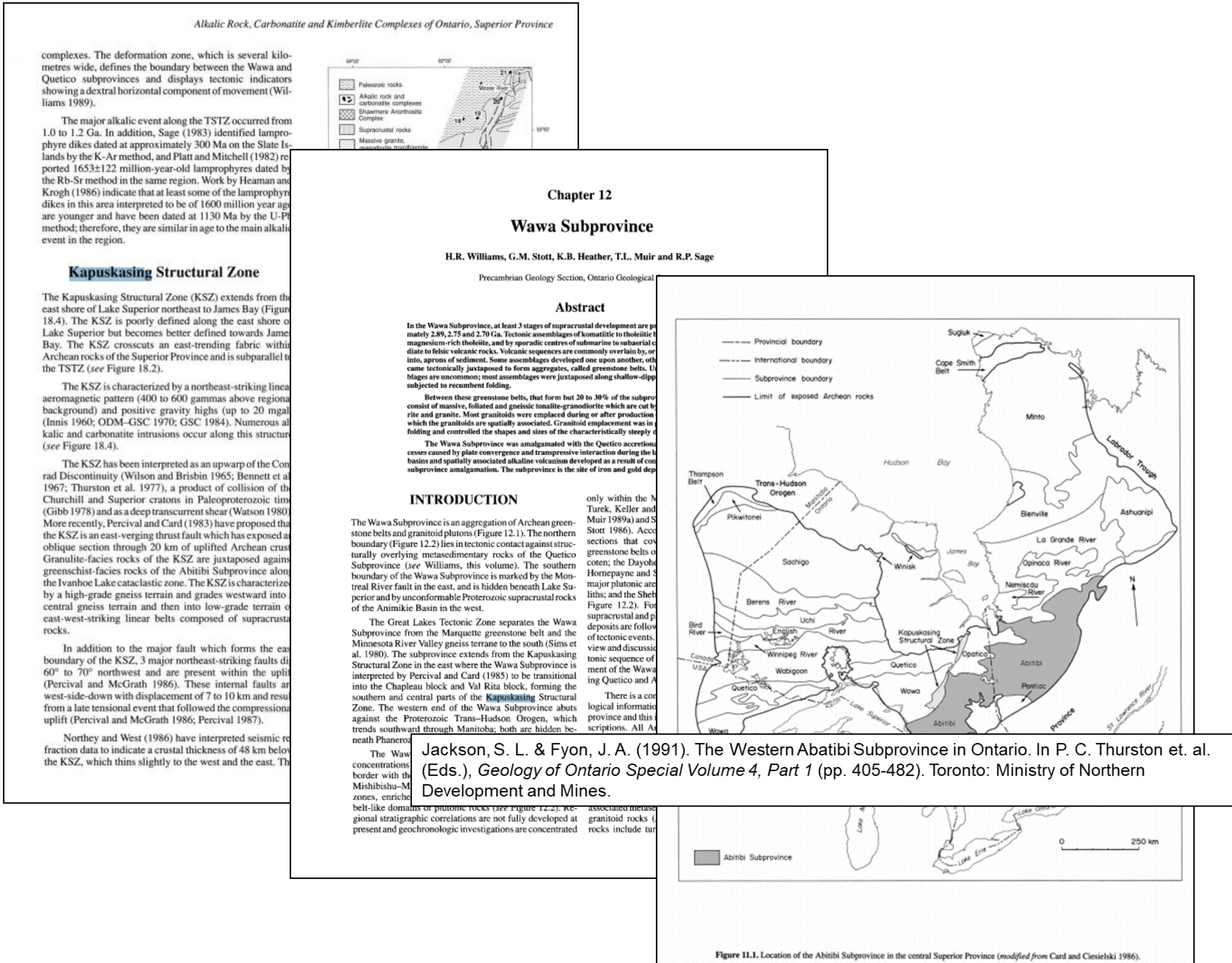
kapuskasing 0/118

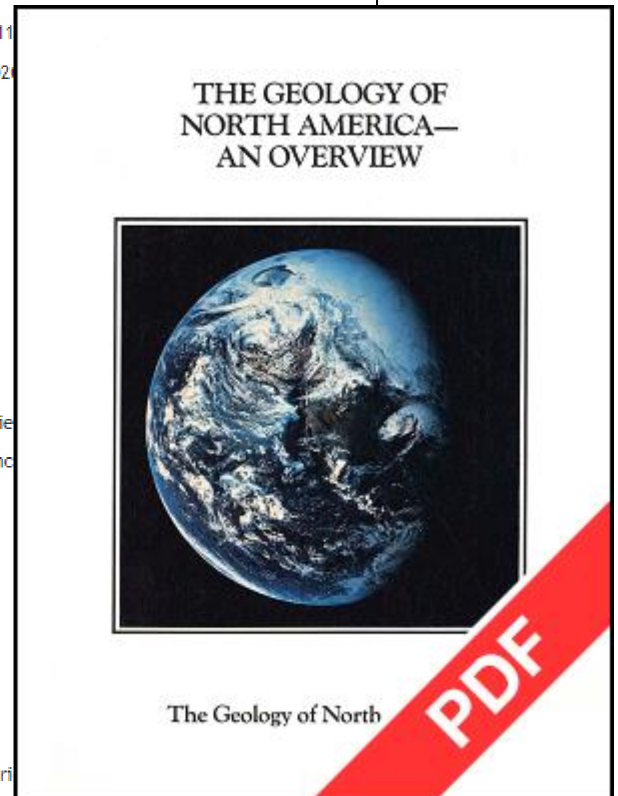


Jackson, S. L. & Fyon, J. A. (1991). The Western Abatibi Subprovince in Ontario. In P. C. Thurston et. al. (Eds.), *Geology of Ontario Special Volume 4, Part 1* (pp. 405-482). Toronto: Ministry of Northern Development and Mines.

Books and resources of supplementary interest:

- List of Canadian, provincial, and regional geology surveys, agencies and departments (Manitoba, Economic Development, Investment, Trade and Natural Resources)
- Plate Tectonics: Continental Drift and Mountain Building (course textbook, 1st edition, 2011
- Plate Tectonics: Continental Drift and Mountain Building (course textbook, 2nd edition, 202
- Geology of Ontario (2 volumes, Brock Library print copy, 1991-92, OGS)
- Geology of Ontario (GeologyOntario, PDF, downloadable volume 1 copy, 1991-92, OGS)
- Geology of Ontario (GeologyOntario, PDF, downloadable volume 2 copy, 1991-92, OGS)
- Fifty years of the Wilson Cycle Concept in Plate Tectonics (2019, Geological Society)
  - Introductory Overview Essay (PDF)
- Geological Evolution of North America (1979, 3rd ed)
- Continents and Supercontinents (2004)
- Exposed Cross-sections of the Continental Crust (1990)
- Plate Tectonics and Crustal Evolution (note different print and older ebook editions, Condie
- Decade of North American Geology (1986, 36 volumes, classic description of NA geology, inc finding the volume and corresponding map sets)
- Regional Stratigraphy of North America (1987)
- Large Igneous Provinces (2014)
- Plate Boundaries and Natural Hazards (2016)
- This Dynamic Earth: The Story of Plate Tectonics (USGS)
- Plate Tectonics and Great Earthquakes: 50 Years of Earth-Shaking Events (2019)
- Plate Tectonics Continental Drift and Mountain Building (2011)
- Principles of Rock Deformation and Tectonics (2021, based on lab, teaching and field experi
- The Tectonic Plates are Moving (2018, gotta read chapter titled Plate Tectonics by Jerks)
- Geology of the Canadian Shield in Ontario: An Update (2007, GSC Open File 5511,PDF)
- The Geology of North America: An Overview (1989, a classic NA resource similar to the Geology of Ontario, GSA)
- Plate Tectonic Evolution from 1 Billion Years ago to the Present (2021, EarthByte, YouTube, 40 seconds)
- Principles of Rock Deformation and Tectonics (2021)
- Regional Geology and Tectonics: Principles of Geologic Analysis (2020)
- Tuzo :The Unlikely Revolutionary of Plate Tectonics (2022)





Geological Survey of Canada

Geology of Canada, no. 7

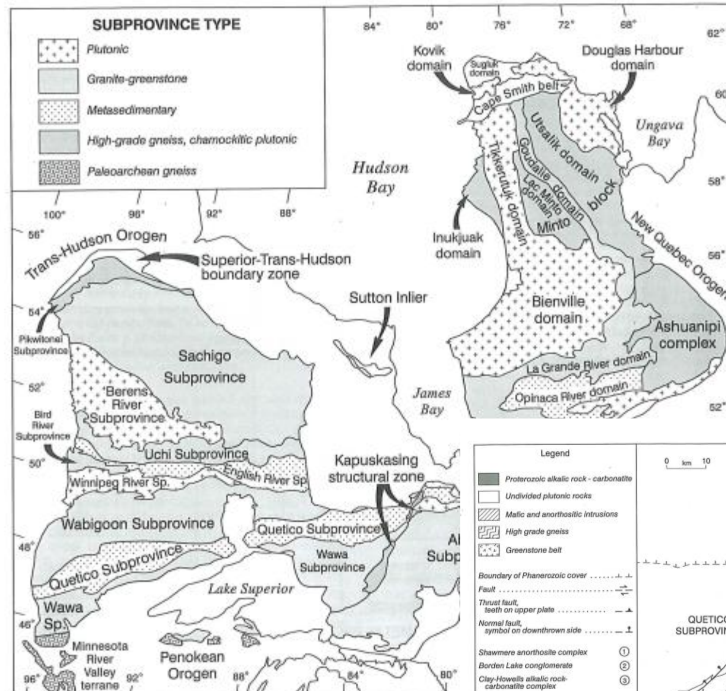
GEOLOGY OF THE PRECAMBRIAN SUPERIOR AND GRENVILLE PROVINCES AND PRECAMBRIAN FOSSILS IN NORTH AMERICA

co-ordinated by

S.B. Lucas and M.R. St-Onge

1998

This is volume C-1 of the Geological Society of America's Geology of North America series produced as part of the Decade of North American Geology Project



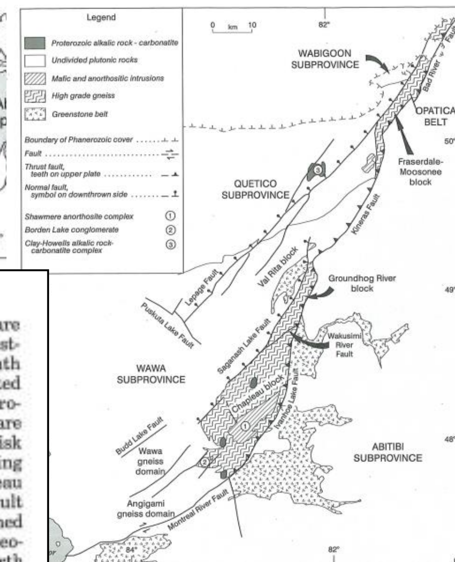


Figure 2.72. Major geological elements of the Kapuskasing structural zone.

General geology

High-grade rocks of the Kapuskasing structural zone are relatively poorly exposed in a region extending northeastward from Chapleau, Ontario, to the Paleozoic cover south of James Bay. Gravity and magnetic anomalies associated with the structure extend farther north beneath Phanerozoic cover and the waters of James Bay, where they are apparently abruptly terminated, possibly by the Winisk River fault system. Faults associated with the Kapuskasing structural zone extend southwestward from the Chapleau area, possibly connecting with the Montreal River Fault near Lake Superior. Percival and McGrath (1986) defined several domains within the zone on the basis of their geological and geophysical attributes. From south to north these are the Chapleau, Groundhog River, and Fraserdale-Moosonee blocks, as well as the Val Rita block in the Wawa gneiss terrane to the west (Fig. 2.72).

Lucas, S. B., & St-Onge, M. R. (1998). Geology of the Precambrian Superior and Grenville Provinces and Precambian fossils in North America. Geological Survey of Canada. DNAG v. C-1. GSA, GSC.

Report 175

Geology of the

Gowganda Lake-Miller Lake Silver Area

District of Timiskaming

By

W.H. McIlwaine

1978

Ontario

Ministry of Natural Resources

Hon. Frank S. Miller
Minister

Dr. J.K. Reynolds
Deputy Minister

STRUCTURAL GEOLOGY

Folds

Evidence of large-scale folding is present in the Early Precambrian metavolcanics. In these rocks the foliation trend swings from eastward in Van Hise, Haultain, and northern Nicol Townships to a southward strike in central Nicol Township; dips are steep mainly to the north and east. Top determinations from pillows in two localities suggest these inliers are disconnected segments of an anticline which existed prior to Middle Pr

Undulations in the Nipissing Diaba sult of post-emplacement folding.

The Huronian rocks have been gen to the south in the Maple Mountain ar sult of a greater distance from the influ

Fa

Faults in the area trend in four m northwest, northeast, and east. Criteria clude shearing and brecciation, alterati ological contacts, and repetitions of for

ECONOMIC GEOLOGY

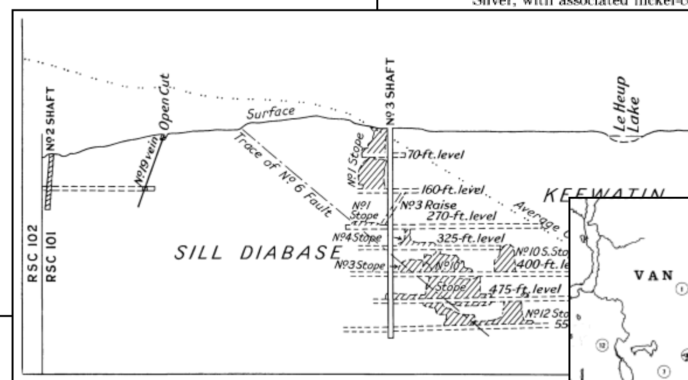
Serpentine

Small serpentinized dunite bodies occur in the Firth Lake-Serpentine Lake area of Van Hise Township. Narrow stringers of asbestiform serpentine occur locally in outcrops; diamond drilling by Texmont Mines Limited in 1966 indicated similar stringers of serpentine at depth.

Silver-Cobalt and Associated Mineralization

Silver, with associated nickel-cobalt-iron arsenides, has been the only prod- a; there has been almost continuous pro- Mine since 1908 when silver was first for the camp are shown in Table 11. It ue dollar value on this production due to

ars pertaining to the description and gen- include those by E.W. Todd (1926), E.S. d Moore (1955). More recent studies have Hester (1967). The most comprehensive ntained in a special volume of The Cana- *-Arsenide Deposits of the Cobalt-Gow-*



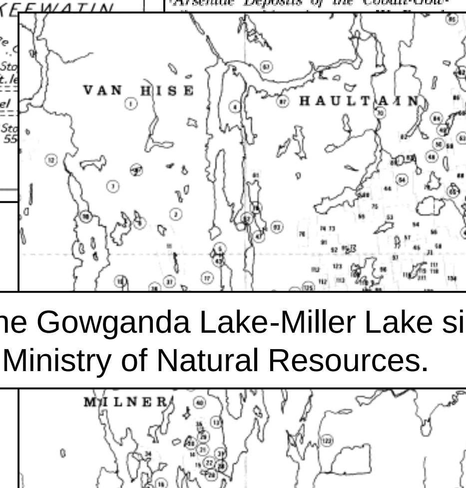


TABLE 9	MODAL ANALYSES OF OLIVINE DIABASE DIKE. (Values in percent).	
Specimen	W-6-10	W-9-10
Plagioclase	59.1	
(% An)	54	
Pyroxene	17.1	
Olivine	18.3	11.7
Magnetite	3.7	7.2
Biotite-Chlorite	1.8	4.6
Totals	100.0	100.0

McIlwaine, W. H. (1978). Geology of the Gowganda Lake-Miller Lake silver area : District of Timiskaming. Ontario Ministry of Natural Resources.

Condie, K. C., & Pease, V. (Eds.). (2008*). When did plate tectonics begin on planet Earth?* Boulder: CO, Geological Society of America.

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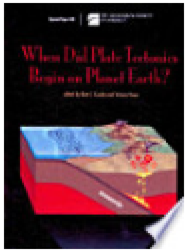

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[When Did Plate Tectonics Begin on Planet Earth? - Page 214]

Kent C. Condie, Victoria Pease · 2008

FOUND INSIDE – PAGE 214

... KU—**Kapuskasing uplift**; NKF—North Kenyon fault; OB—Opinaca basin; P—fl at-lying Proterozoic cover; PB—Pontiac ... Province and that argue for establishment of modern-s tectonics on Earth by the end of the Archean.

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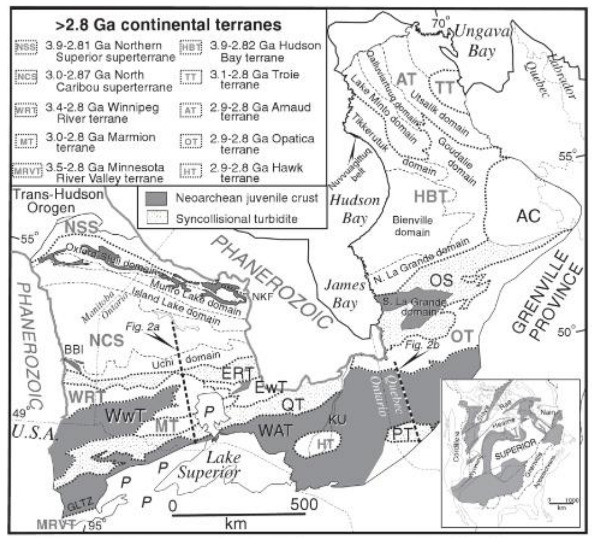

Figure 7. Tectonostratigraphic terrane map of the Superior Province showing distribution of Eo- to Mesoarchean continental fragments, Neoarchean juvenile crust, and synorogenic turbidite basins. Additional abbreviations not shown in legend: AC—Ashuanipi complex; BBI—Bidou–Black Island terrane; ERB—English River basin; EwT—eastern Wabigoon terrane; GLTZ—Great Lakes tectonic zone; KU—Kapuskasing uplift; NKF—North Kenyon fault; OB—Opinaca basin; P—flat-lying Proterozoic cover; PB—Pontiac basin; QB—Quetico basin; WAT—Wawa-Abitibi terrane; WwT—western Wabigoon terrane.

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kapuskasing and (structure or uplift or terrane)

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... the **Kapuskasing uplift** ... s **terrane**; (3) the

... dels of evolution for the ... discontinuity in the ... onic settings of granulite

... vince, Canada: A view

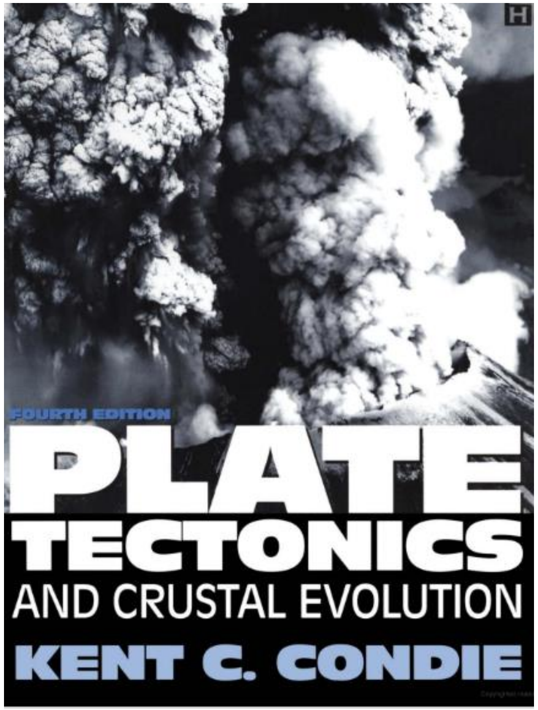
1. THE KAPUSKASING UPLIFT

The Kapuskasing uplift occurs within the Superior Province, an Archean terrane of diverse lithological character. The southern part of the province consists of east-trending, alternating granite-greenstone and metasedimentary gneiss belts, whereas the north appears to be uniformly high-grade gneiss (Card and Ciesielski, 1986; Fig. 1). Seismic refraction studies over granite-greenstone terranes detect a mid-crustal discontinuity with an increase of P-wave velocity (Vp) on the order of 0.3 km.sec^{-1} (Berry and Fuchs, 1973; Green et al., 1979; Hall and Brisbin, 1982).

In the south-central part of the Province, the Kapuskasing uplift exposes rocks that show continuous transitions from greenstones, to amphibolite-facies gneisses, into granulites (Fig. 1). The lithological transition coincides with an increase in metamorphic grade and pressure, from 200-300 MPa (2-3 kb) greenschists, through amphibolites, to 700-900 MPa (7-9 kb) granulites (Percival, 1983; Percival and McGrath, 1986). This transect has been interpreted as an uplifted, oblique cross-section through the upper two-thirds of the crust (Percival and Card, 1983; 1985), based on the criteria of Fountain and Salisbury (1981). The amphibolite-granulite boundary zone corresponds to an increase in average density (Percival, 1986) and seism... Salisbury, 1986) that makes it analogous t... observed at depth elsewhere. Anomalously h... were recorded over the Kapuskasing structural zone in recent seismic reflection (Cook, 1985) and refraction (Northey and West, 1986) experiments.

The region affected by the Kapuskasing uplift can be divided into four distinct lithological domains, from west to east (1) the Michipicoten greenstone belt; (2) the Wawa gneiss terrane; (3) the Kapuskasing structural zone; and (4) the Abitibi greenstone belt. Only domains 2 and 3 are relevant to this discussion; more background information is available in Percival and Card (1985).

The Wawa gneiss terrane comprises predominantly amphibolite facies biotite ± hornblende tonalitic rocks, with variable amounts of clinopyroxene-bearing mafic xenoliths, intruded by later granodiorite and granite. Several large-scale domal structures have been identified



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GEOLOGICAL SURVEY OF CANADA

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Results of helicopter electromagnetic surveys along the Kapuskasing transect, District of Cochrane, Ontario

G.J. Palacky

1993

Energy, Mines and Resources Canada / Énergie, Mines et Ressources Canada

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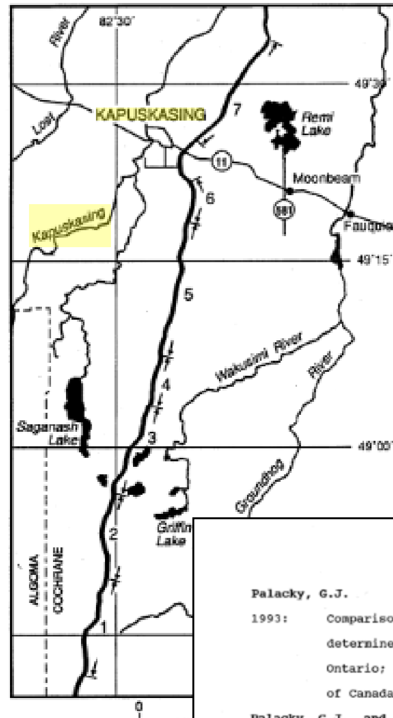

ABSTRACT

An helicopter electromagnetic and magnetic survey was carried out in 1987 by a contractor, Aerodat Limited of Mississauga, Ontario, along a transect north and south of Kapuskasing, Ontario. The survey was a contribution to the Canada-Ontario 1985 Mineral Development Subsidiary Agreement under the Economic and Regional Development Agreement and it was funded by the Geological Survey of Canada. The purpose of the survey was to provide geophysical data in support of a Quaternary mapping program. Subsequent to the survey, experiments with various data processing techniques were carried out to determine whether overburden conductivity and thickness can be reliably determined from the electromagnetic data. This Open File report contains copies of 7 photomosaics with the layout of the survey and 16 sets of stacked profiles which contain the measured data and calculated overburden conductivity and thickness. Two routines were used in the calculations: least squares inversion based on singular value decomposition (SVD) and centroid depth algorithm (z*).

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The Encyclopedia of Earth (current, open)

Geology Dictionary (current, Geology.com)

Concise Geological Time Scale (2016)

Divisions of Geologic Time (Geology.com)

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- United States Geological Survey (USGS)
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- Geographical Names in Canada (GNBC)
- GeologyOntario
- GeoNames
- GEOSCAN (GSC)
- Getty Thesaurus of Geographic Names
- Google Earth
- Google Maps
- Lexicon of Canadian Geological Names on-line (WEBLEX Canada, Natural Resources Canada)
- National Geologic Map Database (USGS)
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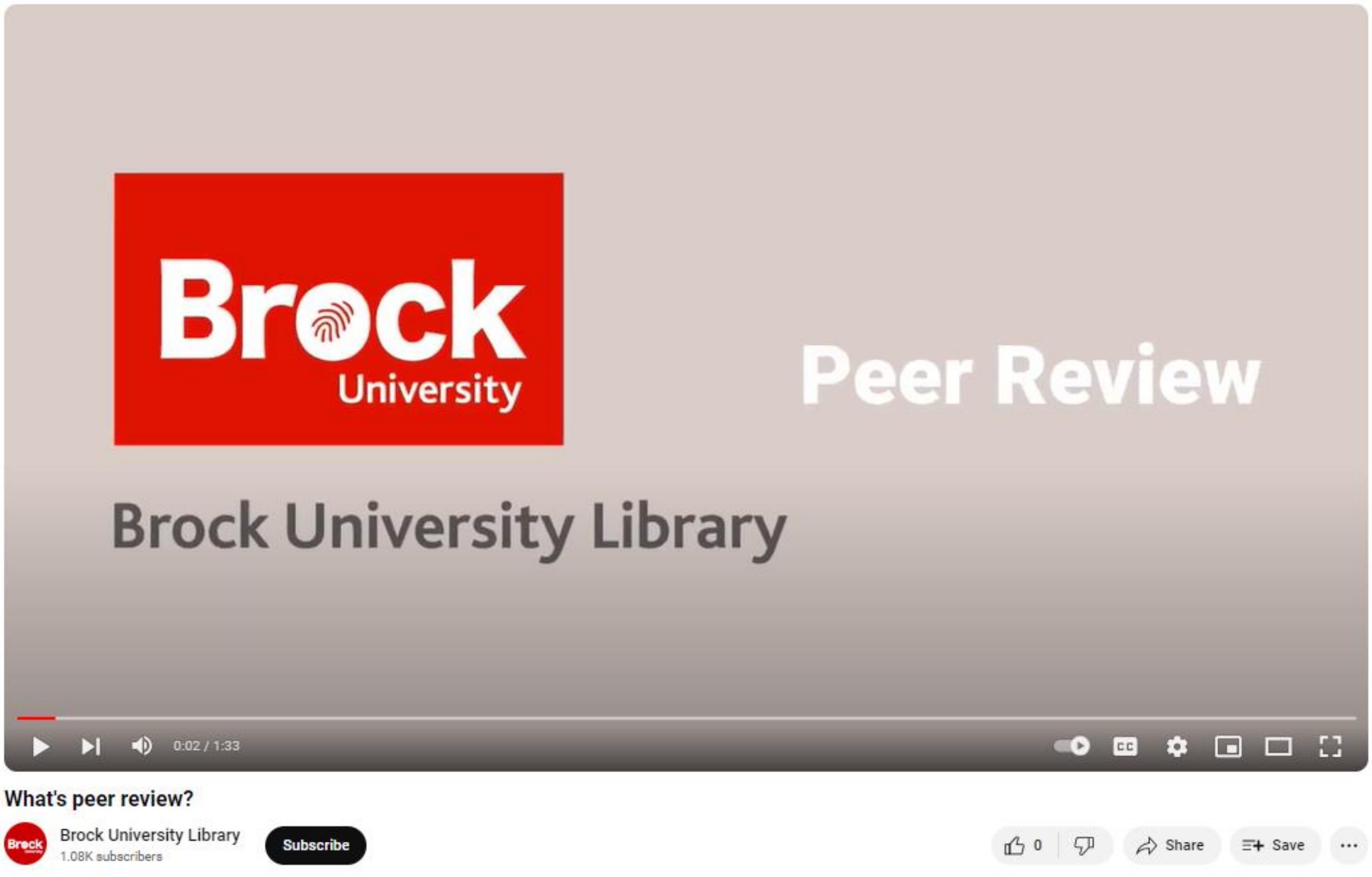

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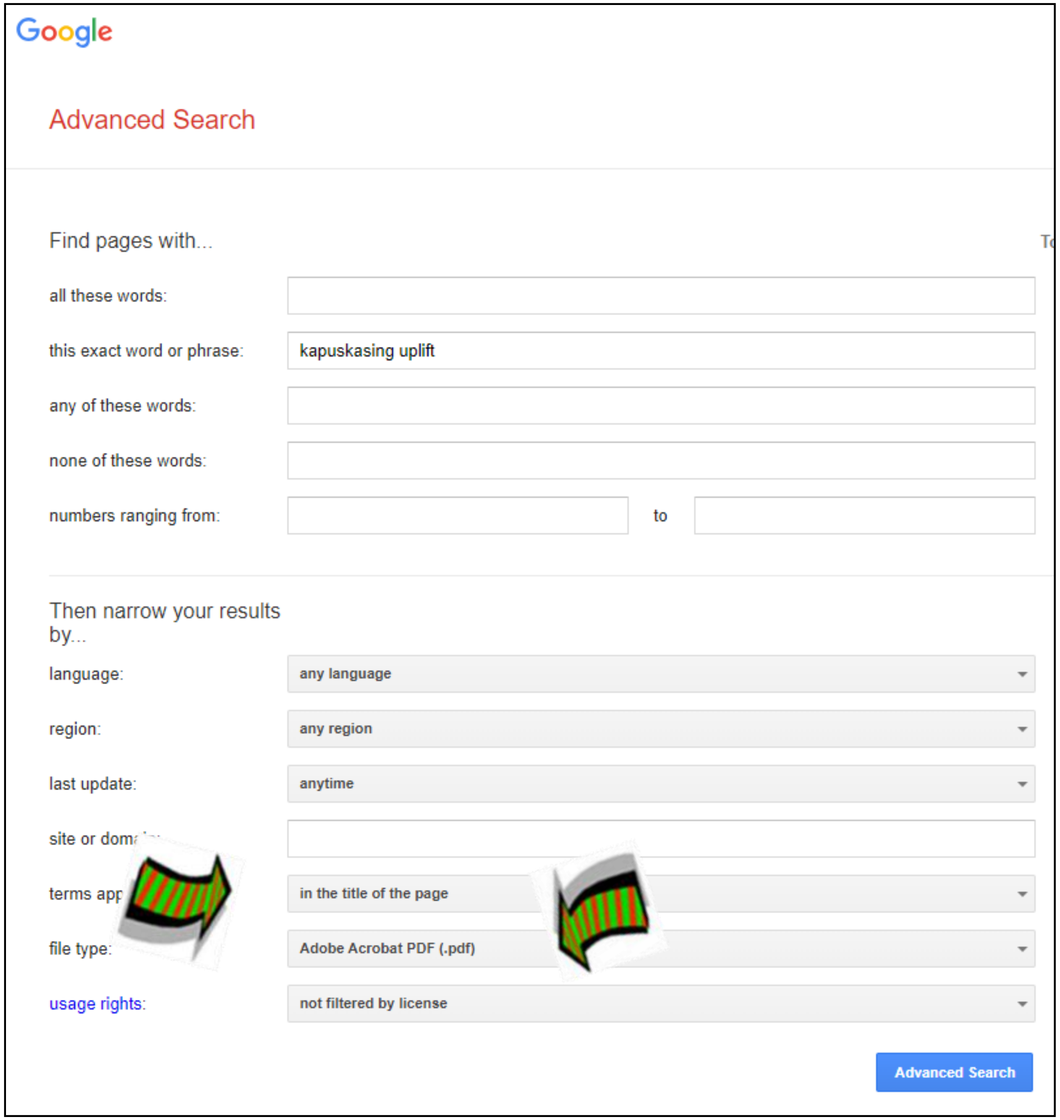

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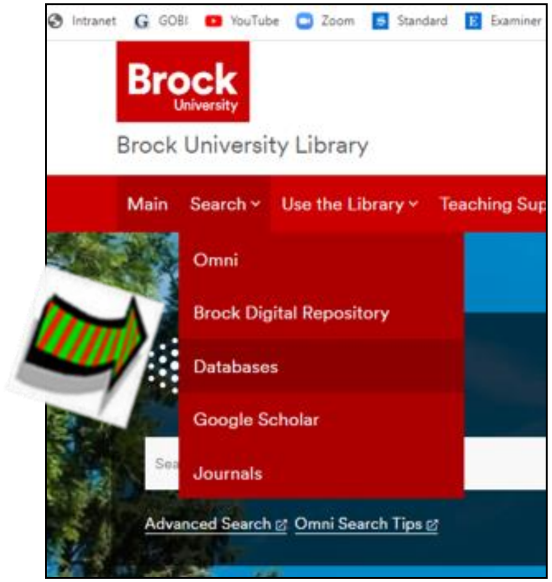

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Archean crust as revealed in the Kapuskasing uplift, Superior province, Canada

J. A. Percival, K. D. Card   Geological Survey of Canada, 588 Booth Street, Ottawa, Ontario K1A OE4, Canada

ABSTRACT

In the central Superior province of the Canadian Shield, a 120-km-wide transition from the low-grade Michipicoten greenstone belt to the high-grade Kapuskasing structural zone represents an oblique section through some 20 km of Archean crust, uplifted along a northwest-dipping thrust fault. The restored vertical section through the upper and middle crust consists of three megalayers with undulating boundaries: (1) 0 to < 10 km, a metavolcanic-metasedimentary succession ("greenstone belts") with discordant plutons; (2) < 10 to ~ 20 km, tabular batholiths of gneissic and xenolithic tonalite and granodiorite; and (3) from 20 to > 25 km, a high-grade heterogeneous gneissic assemblage, in part older than the upper supracrustal succession.

INTRODUCTION

Accurate models of Precambrian crustal evolution require both depth and time dimensions. Zircon geochronology can provide resolution of a few million years in rocks 2,700 m.y. old. Structural relief generally provides the only direct evidence of variation in the vertical dimension, although gravity and seismic data give valuable information on large-scale crustal structure. Several regions with large-scale, gradational metamorphic zonation and compositional variation have been interpreted as oblique cross sections through the continental crust (Fountain and Salisbury, 1981). The central Superior province of the Canadian Shield (Fig. 1) is examined in this context.

The Superior province is an Archean terrane composed of east-west-trending belts of alternate volcanic-rich and sediment-rich character, termed subprovinces (Fig. 1). The continuity of the east-west belts is interrupted by a northeast-trending zone of high-grade metamorphic rocks, the Kapuskasing structural zone (Thurston et al., 1977). The Kapuskasing structure is fault-bounded on the southeast, but the western contact is complex and gradational over 120 km to low-grade rocks of the Michipicoten belt near Lake Superior (Fig. 1).

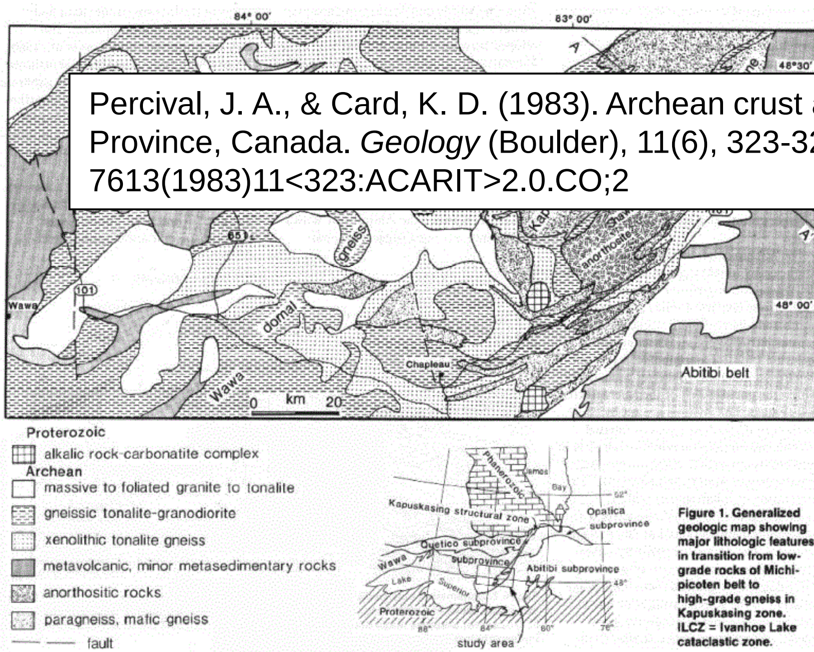

Figure 1. Generalized geologic map showing major lithologic features in transition from low-grade rocks of Michipicoten belt to high-grade gneiss in Kapuskasing zone. ILCZ = Ivanhoe Lake cataclastic zone.

Percival, J. A., & Card, K. D. (1983). Archean crust as revealed in the Kapuskasing Uplift, Superior Province, Canada. *Geology* (Boulder), 11(6), 323-326. https://doi.org/10.1130/0091-7613(1983)11<323:ACARIT>2.0.CO;2

Structural correlation within the Kapuskasing uplift[1]

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Comparison of progressive deformation and metamorphic history within and between the tectonic domains of the Kapuskasing uplift indicates significant variation in age and style of deformation across this large segment of the central Superior Province; multiple stages of tonalite and granitoid intrusion, melt generation, polyphase diachronous deformation, and likely rapid deep burial of supracrustal rocks collectively produced the complex character of this example of Archean mid to deep crust. At least four Archean deformation phases are recognized, although not all are of regional extent. Dated structural chronology suggests that the locus of the earliest recorded deformations migrated to deeper crustal levels with time.
Pre-2680 Ma deformation (local D_1-D_2) within high-leve
supracrustal belt. The apparent earliest deformational fa
Kapuskasing structural zone occurred between 2660 and 2
($\sim$2667 to $\sim$2629 Ma) are present at mid-crustal and dee
resulted in large-scale folding and subhorizontal ductile shea
that separated a passive upper crust from continued ductile

Subsequent uplift of the high-grade rocks was accompli
culminated around 1.9 Ga, although continued movement o
which much of the uplift must have occurred, exhibits some
observed structures are brittle to brittle–ductile and steeply i
shear zones is a characteristic feature of the fault zone throughout its length, and both dextral and sinistral offset are locally present. Clear ground evidence for major transcurrent or thrust displacements, however, has not been recognized.

Bursnall, J. T., A. D. Leclair, D. E. Moser, and J. A. Percival. 1994. "Structural Correlation within the Kapuskasing Uplift." *Canadian Journal of Earth Sciences = Revue Canadienne Des Sciences de La Terre 31* (7): 1081–95. https://doi.org/10.1139/e94-097.

Une comparaison, de la déformation progressive et de l'histoire métamorphique des domaines ou interdomaines tectoniques du soulèvement de Kapuskasing, révèle que les âges et les styles des déformations varient considérablement au travers ce large segment de la province du lac Supérieur centrale; les nombreux évènements intrusifs de tonalite et de granitoïde, la génération de magmas, la déformation polyphasée diachrone, et l'enfouissement vraisemblablement rapide des roches supracrustales, ont tous contribué au développement complexe de cet exemple de croûte archéenne à des niveaux médian à profond. Au moins quatre phases de déformation sont reconnues, quoiqu'elles ne soient pas toutes d'étendue régionale. La datation des évènements structuraux suggère que le foyer des premières déformations enregistrées se déplaçait dans le temps vers les niveaux crustaux plus profonds. La déformation antérieure à 2680 Ma (D_1-D_2 locale), dans les hauts niveaux de la tonalite, est mise en corrélation avec la déformation de la zone supracrustale de Michipicoten. Les fabriques de déformation, apparemment les plus anciennes, qui sont observées dans le terrane à granulites de la Zone structurale de Kapuskasing, à des niveaux crustaux plus profonds, ont été produites entre 2660 et 2640 Ma. La troisième et la quatrième phase de déformation archéenne ($\sim$2667 à $\sim$2629 Ma) apparaissent au niveau de la croûte médiane et à plus grande profondeur, et elles ont affecté les conglomérats postérieurs à 2667 Ma; le résultat est la création de zones de plissements à grande échelle et de zones de cisaillement ductile, subhorizontales, qui représentent possiblement une zone de transition majeure, séparant la croûte supérieure passive d'avec les niveaux plus profonds qui étaient asujettis à une déformation ductile continue.

Le soulèvement subséquent des roches de degré de métamorphisme élevé s'est produit par étapes, amorcé avant 2,45 Ga, il a connu sa phase culminante il y a d'environ 1,9 Ga, quoique le mouvement ait été entretenu jusqu'à une époque aussi tardive que 1,14 Ga. La zone de failles du lac Ivanhoe, le long de laquelle le soulèvement fut très actif, présente certains indices de fabrique ductile reliée à un charriage profond, cependant la majorité des structures observées sont de type fragile à fragile–ductile, et elles sont fortement inclinées. L'existence d'une grande zone de cataclase pénétrante et de zones de cisaillement fragile–ductile est la particularité qui caractérise la zone de failles sur toute sa longueur, et localement des décrochements dextre et senestre sont présents. Il n'existe pas sur le terrain d'indices suffisamment clairs pour permettre la reconnaissance de déplacements dus à des charriages ou à des failles coulissantes.

[Traduit par la rédaction]

Can. J. Earth Sci. **31**, 1081–1095 (1994)

[1]Lithoprobe Publication 562; Geological Survey of Canada Contribution 30794.
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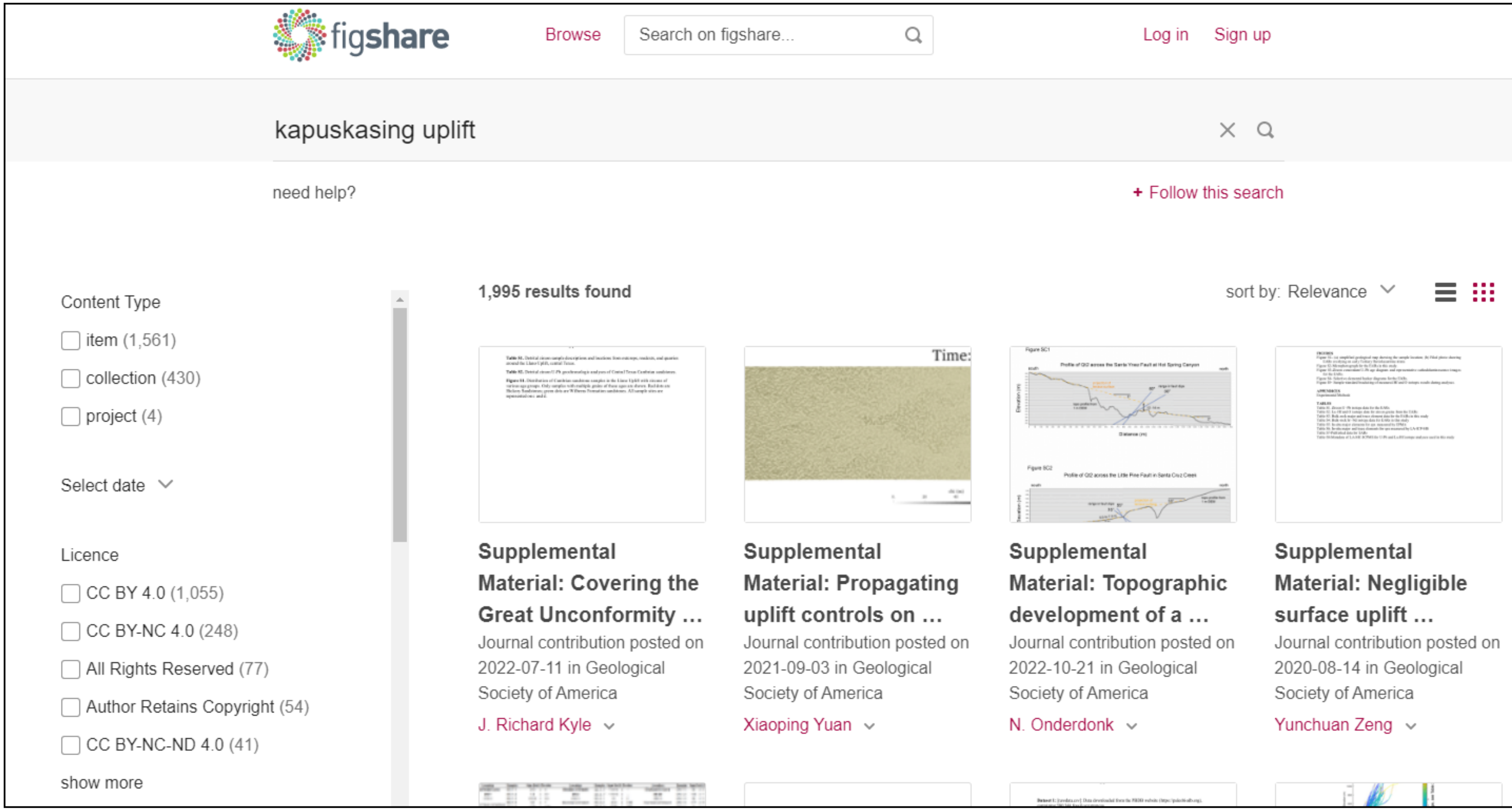
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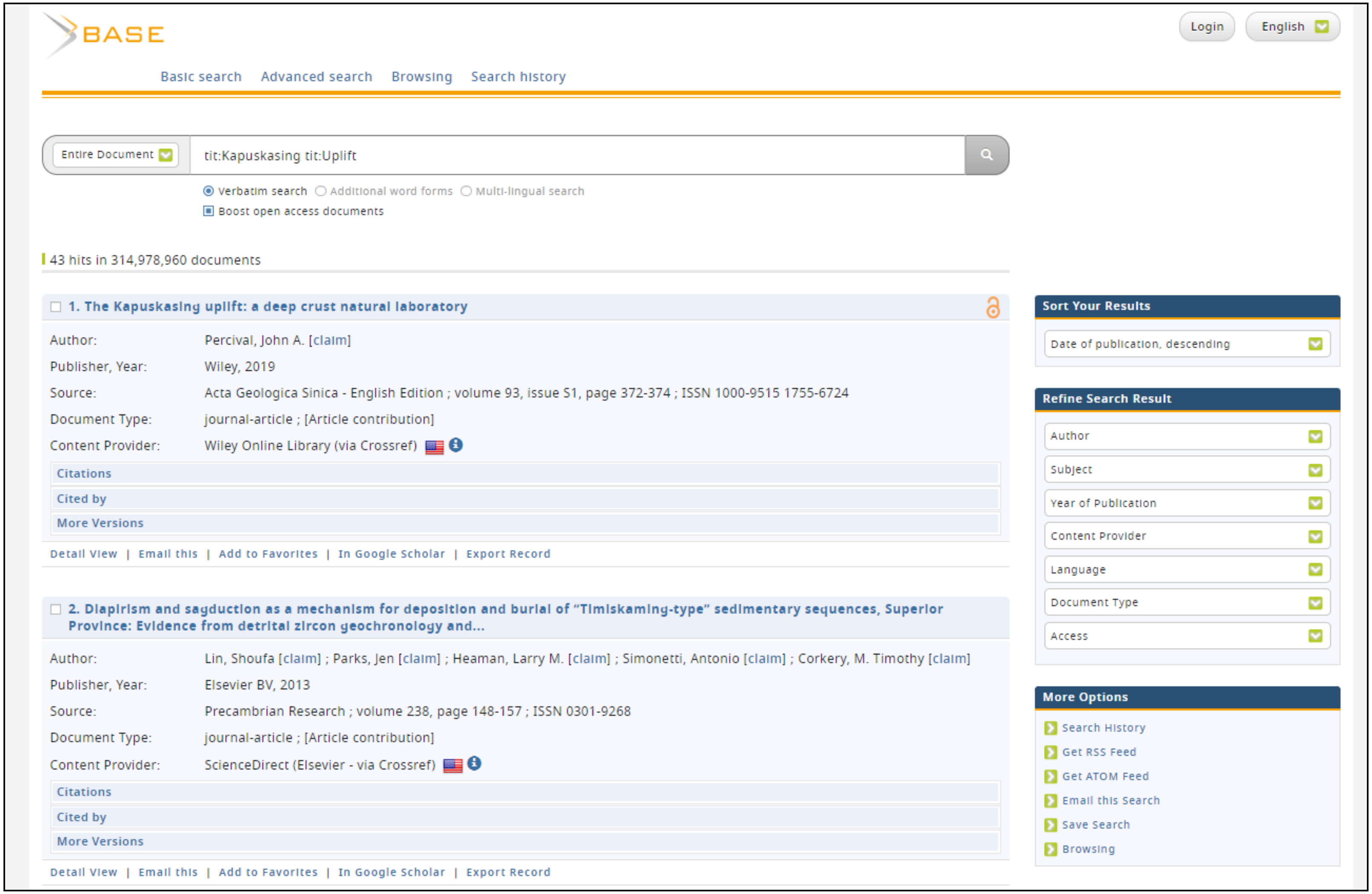
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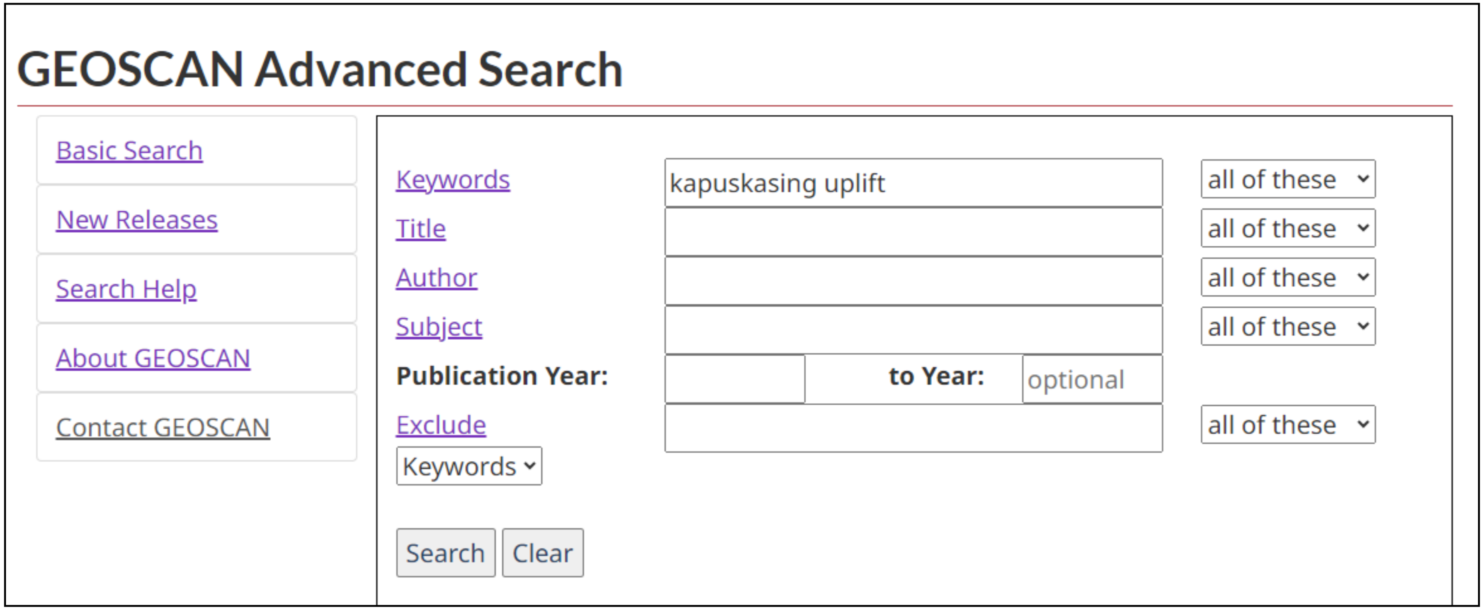

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Percival, J A, in Exposed Cross - Sections of the Continental Crust; Salisbury, M H (ed.); Fountain, D M (ed.); NATO Advanced Science Institutes Series, Series C: Mathematical And Physical Sciences vol. 317, 1990 p. 227-283 (GSC Cont.# 25788)

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A Field Guide to the Kapuskasing Uplift, a Cross Section through the Archean Superior Province

John A. Percival

Chapter

Part of the NATO ASI Series book series (ASIC,volume 317)

Abstract

The Kapuskasing uplift provides a window on the deep crust of the Superior Province. Evidence in support of an exposed oblique crustal cross section includes: a systematic easterly increase in metamorphic grade from 3 kbar greenstones at Wawa to 8 kbar Kapuskasing granulites; structural and paleomagnetic data on gneisses and dykes indicating 10–15° of east-side-up block rotation; seismic refraction and reflection data tracing the high-velocity Kapuskasing zone from surface down dip at 15 °W to about 20 km; and progressively slower

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A FIELD GUIDE TO THE KAPUSKASING UPLIFT, A CROSS SECTION THROUGH THE ARCHEAN SUPERIOR PROVINCE[1]

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ABSTRACT. The Kapuskasing uplift provides a window on the deep crust of the Superior Province. Evidence in support of an exposed oblique crustal cross section includes: a systematic easterly increase in metamorphic grade from 3 kbar greenstones at Wawa to 8 kbar Kapuskasing granulites; structural and paleomagnetic data on gneisses and dykes indicating 10-15° of east-side-up block rotation; seismic refraction and reflection data tracing the high-velocity Kapuskasing zone from surface down dip at 15°W to about 20 km; and progressively slower cooling rates with paleodepth. The composite cross-section derived from the oblique exposure comprises an upper, 2-3 kbar greenstone-granite megalayer (2.89-2.67 Ga), an intermediate, 5-6 kbar tonalite gneiss megalayer (2.72-2.67 Ga) and a lower, 7-9 kbar, heterogeneous granulite gneiss megalayer (2.76-2.60 Ga). Regional cooling and uplift preceded thrust uplift along the Ivanhoe Lake fault 2.2-1.95 Ga ago. Steep normal faults transecting the uplift possibly reflect topographic collapse and are cut by 1.88 Ga carbonatites. Regional NW-SE shortening of about 70 km during the 2.2-1.88 Ga Kapuskasing event was accomodated above a mid-crustal decollement by 15 km of brittle uplift of granulites along a 15°-dipping fault and below it by 10-15 km of ductile thickening of the present lower crust over a 200-km-wide zone.

PART I: Geological Framework of the Kapuskasing Uplift

INTRODUCTION

The purpose of the trip is to examine the characteristics and interrelationships of Archean greenstone-granite and high-grade gneiss terranes of the Superior Province. A 300-km long west to east transect between Wawa and Timmins, Ontario will be used to illustrate regional-scale relationships.

Figures 1 and 2 show the major geological features of the central Superior Province; Figure 3 traces the trip route. On the first day we examine features of the Michipicoten belt, a dominantly metavolcanic

[1]Geological Survey of Canada Contribution No. 25788

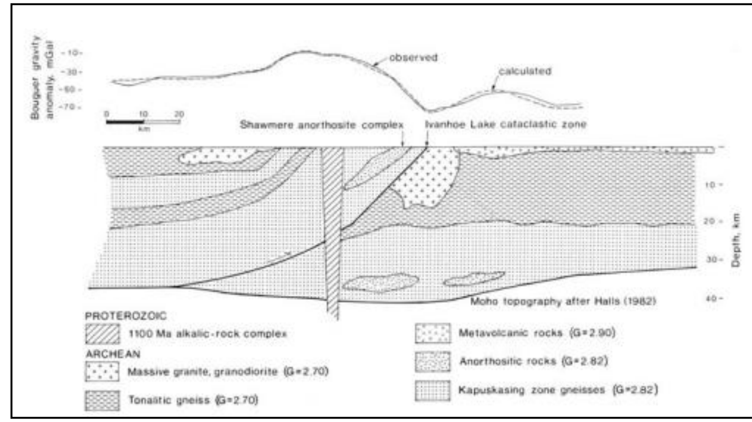

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Figure 20. Large (25 m) Hearst dyke cutting tonalitic gneiss (Stop 1-4). Note easterly dip to western dyke margin.

Percival, J.A. (1990). A Field Guide to the Kapuskasing Uplift, a Cross Section through the Archean Superior Province. In: Salisbury, M.H., Fountain, D.M. (eds) Exposed Cross-Sections of the Continental Crust. NATO ASI Series, vol 317. (pp.227- 283). Springer, Dordrecht. https://doi.org/10.1007/978-94-009-0675-4_10

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The Kapuskasing uplift, located in central Canada, is a significant geological feature that has been the subject of extensive study. Percival (2019) and Wu (1992) both provide insights into its deep crustal structure, with Percival highlighting the presence of tonalitic and mafic gneisses and Wu suggesting that the uplift is a product of intraplate collision during the early Proterozoic. Kurtz (1993) further explores the conductivity of the crust and mantle beneath the uplift, proposing models that could explain the observed data. Lafontaine (2022) contributes to our understanding of the uplift's history by studying the geochemistry and geochronology of a gold-bearing gneiss in the region. These studies collectively enhance our knowledge of the Kapuskasing uplift and its geological significance.

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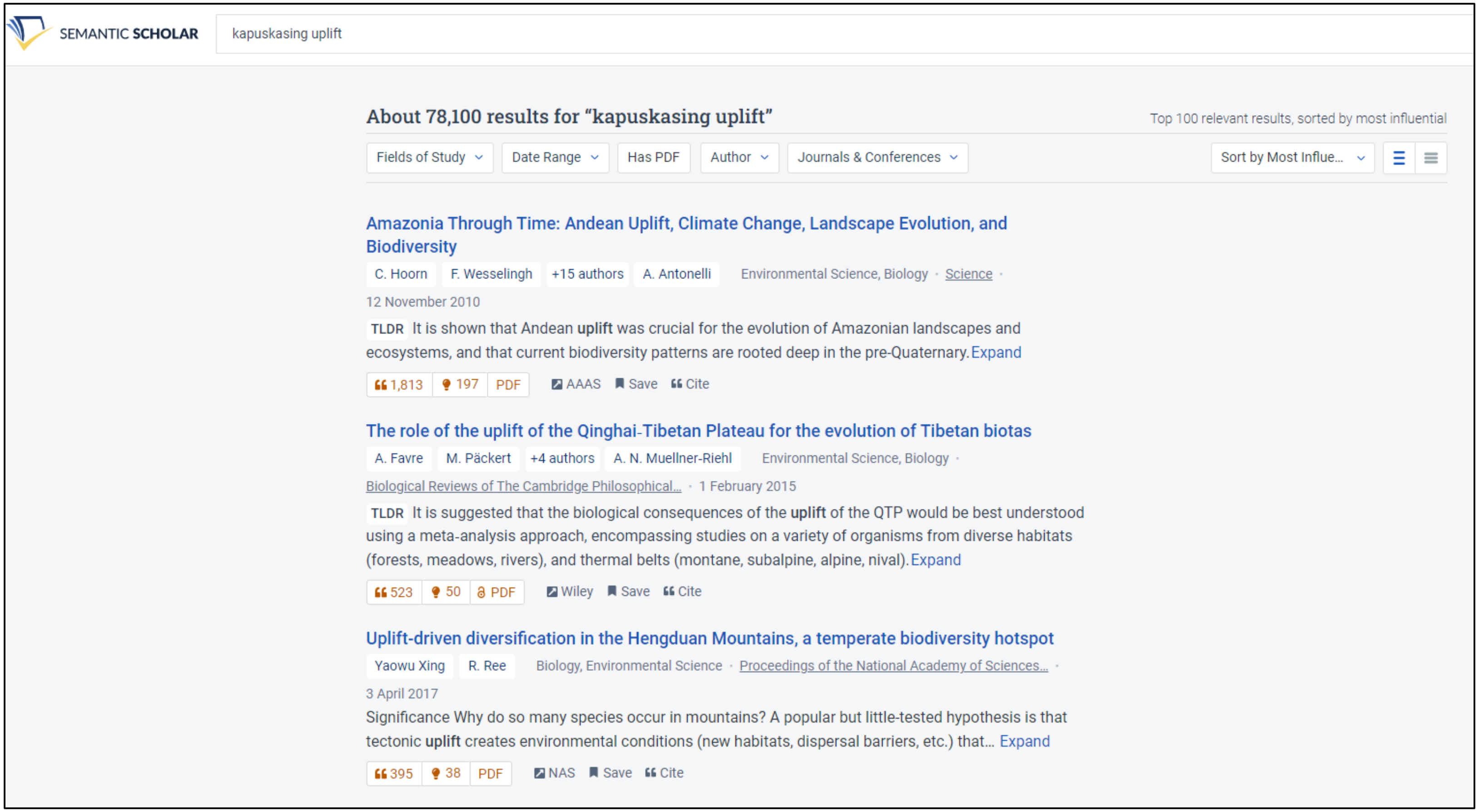

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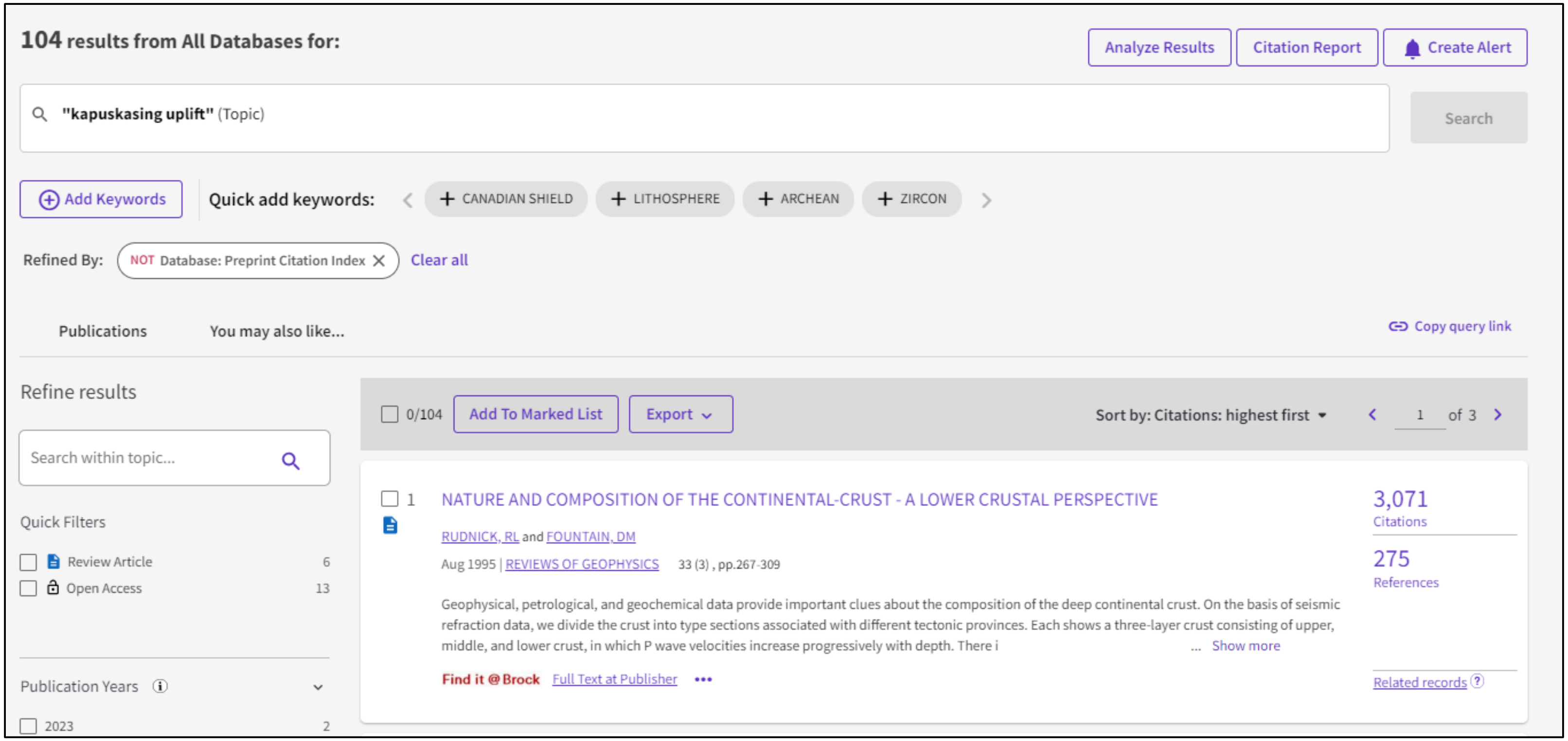

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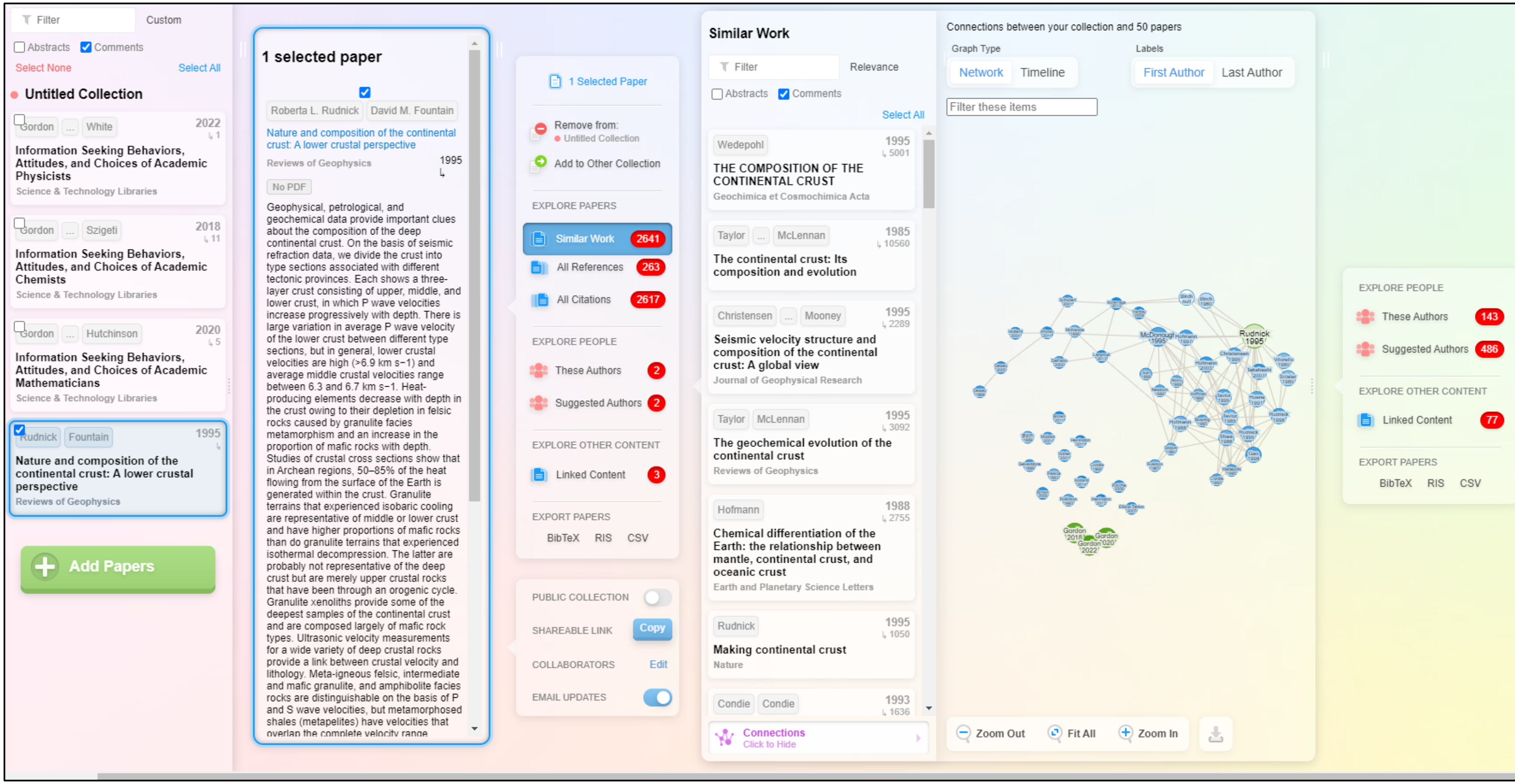

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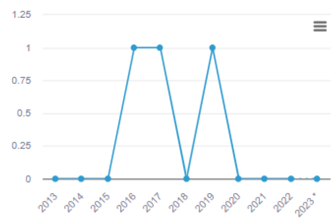

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Abstract

The central Superior Province is transected by the intracratonic Kapuskasing uplift, which contains rocks exhumed from 30 to 35 km paleodepth. As part of the Lithoprobe Kapuskasing transect, approximately 52 km of 16 s seismic reflection data were collected in the central segment of the uplift along three profiles that traverse the northern Groundhog River block, the bounding Saganash Lake fault, and the eastern Val Rita block. The seismic sections have the following characteristics in common: (i) a complexly reflective uppermost portion (< 1 s) limiting correlation of reflective zones and surface features; (ii) numerous subhorizontal, east- and west-dipping reflection zones; and (iii) a significant reduction in reflectivity beyond the refraction-defined Moho (~ 14 s). Beneath the Groundhog River block a series of straight, west-dipping (~ 20°) reflection zones between 2 and 10 s is underlain by subhorizontal reflections in the lower crust. Across the Saganash Lake fault, the Val Rita block is characterized by a maze of discontinuous, curvilinear reflections with general easterly dip down to 8 – 10 s, below which west-dipping events are prominent. A north–south cross profile reveals a highly reflective crust with dominantly horizontal reflection geometry below the Saganash Lake metavolcanic belt, and a steep truncation of reflection zones down to at least 7 s, which correlates with the surface trace of the Nansen Creek fault. This fault resembles well-known strike-slip faults in intraplate settings. The Saganash Lake fault, variably interpreted as a west-side-down normal fault with up to 15 km of throw or a major strike-slip zone, may be visible as a west-dipping, weakly reflective zone steeply truncating east-dipping reflections and becoming listric at depth. This interpretation accords with surface geological observations and gravity models for the structural geometry of the region in which the Groundhog River block is a thin thrust sheet of granulite perched on Abitibi belt rocks and truncated on the west by the crustal-scale Saganash Lake fault. Alternatively, the fault could be a seismically unresolved major transcurrent structure juxtaposing blocks with disparate reflection patterns in the upper 8 s. Limited amounts of late strike-slip motion have been inferred from various geophysical studies.

Keywords

CRUST | SAGANASH LAKE | GRAVITY MODELS | WEST DIPPING | LAKE FAULT | REFLECTION ZONES | KAPUSKASING

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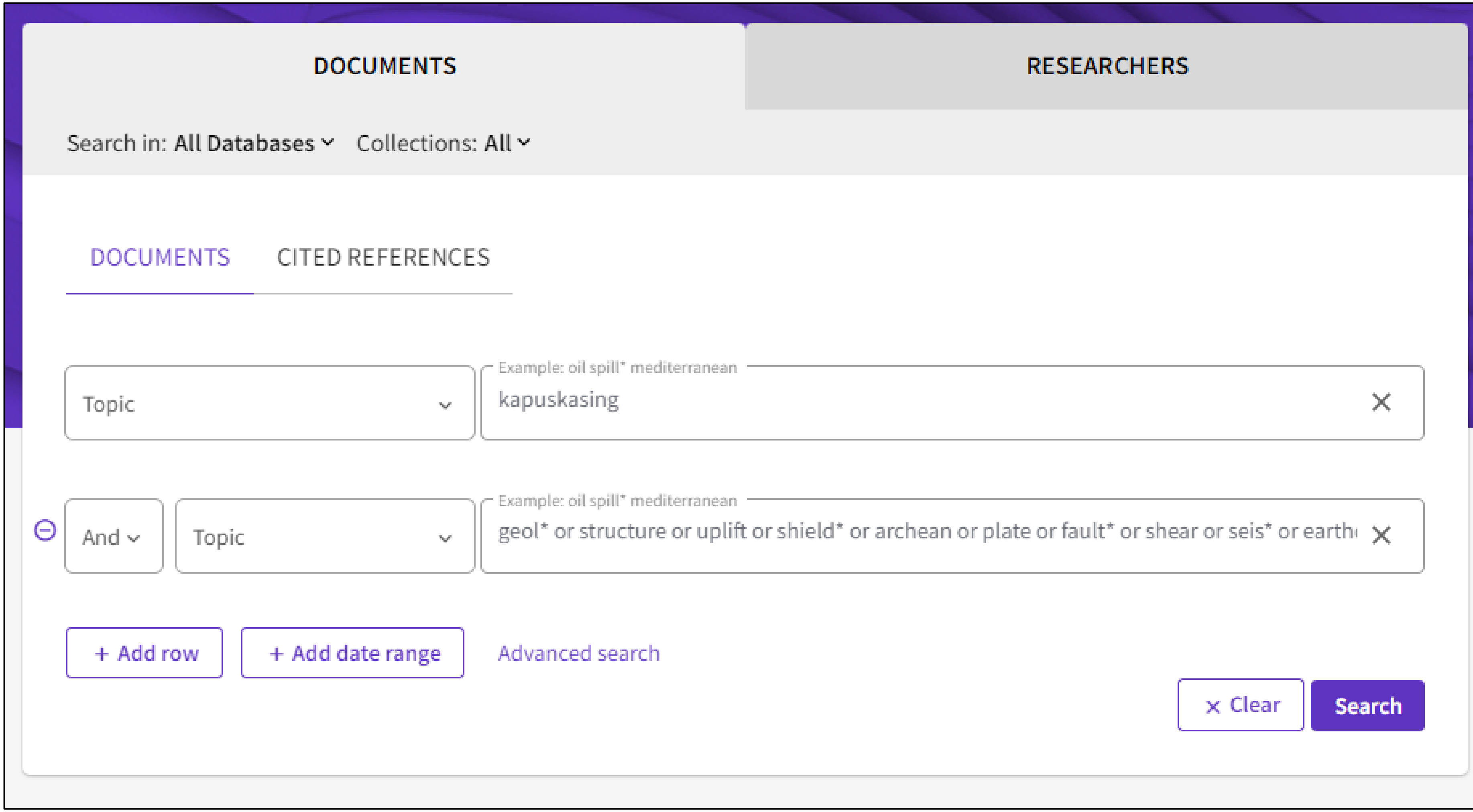

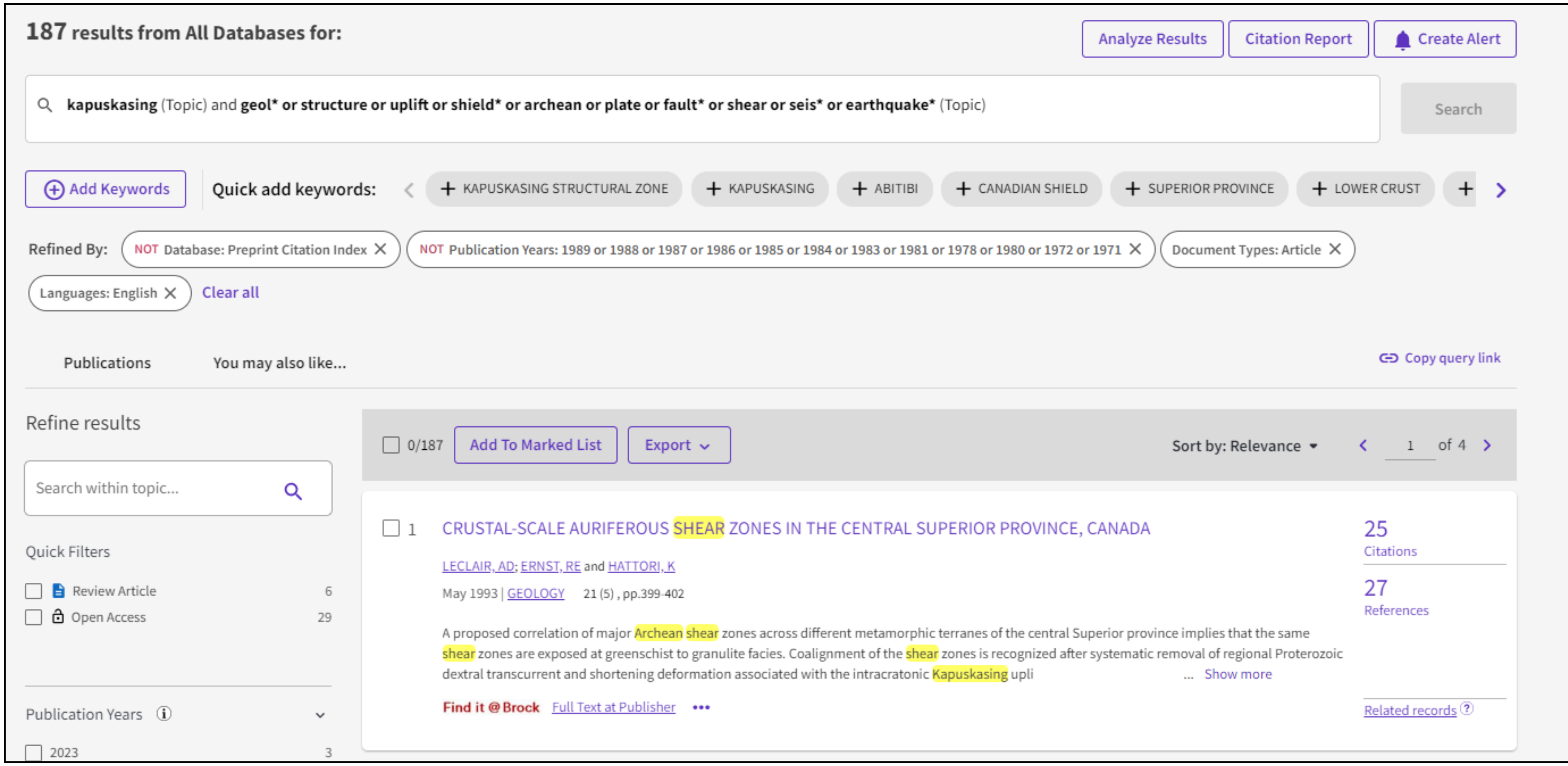
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1 CRUSTAL-SCALE AURIFEROUS SHEAR ZONES IN THE CENTRAL SUPERIOR PROVINCE, CANADA
LECLAIR, AD; ERNST, RE and HATTORI, K
May 1993 | GEOLOGY 21 (5) , pp.399-402
A proposed correlation of major Archean shear zones across different metamorphic terranes of the central Superior province implies that the same shear zones are exposed at greenschist to granulite facies. Coalignment of the shear zones is recognized after systematic removal of regional Proterozoic dextral transcurrent and shortening deformation associated with the intracratonic Kapuskasing upli ... Show more
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U–Pb geochronology: its development and importance in Canada

Donald W. Davis

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This article presents a history of the development of U–Pb geochronology with emphasis on the role of Canadian researchers and some of its applications to Canadian geology. Modern U–Pb dating is the result of work by many individuals over the past 60 years, but the most important was Tom Krogh, who established methods that allowed determination of precise ages (<0.1% errors) on zircon using isotope dilution thermal ionization mass spectrometry. This was followed by the introduction of new analytical approaches by others, notably secondary ion mass spectrometry and laser ablation inductively coupled plasma mass spectrometry that allow intracrystal domains to be dated. U–Pb geochronology is now an indispensable tool for understanding the Earth. In collaboration with field mapping, it has vastly improved our understanding of the geological history of Canada as well as important geological events such as mass extinctions, secular changes in geological processes, and the birth of the solar system.

Keywords: U–Pb, geochronology, zircon, history, Canadian geoscience

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absolute age, applications, Archean, Canada, carbonates, history, hydrothermal alteration, igneous rocks, instruments, ion probe, mafic composition, mass extinctions, mass spectroscopy, metasomatism, methods, nesosilicates, orthosilicates, Precambrian, silicates, solar system, spectroscopy, terranes, U/Pb, ultramafic composition, zircon, zircon group

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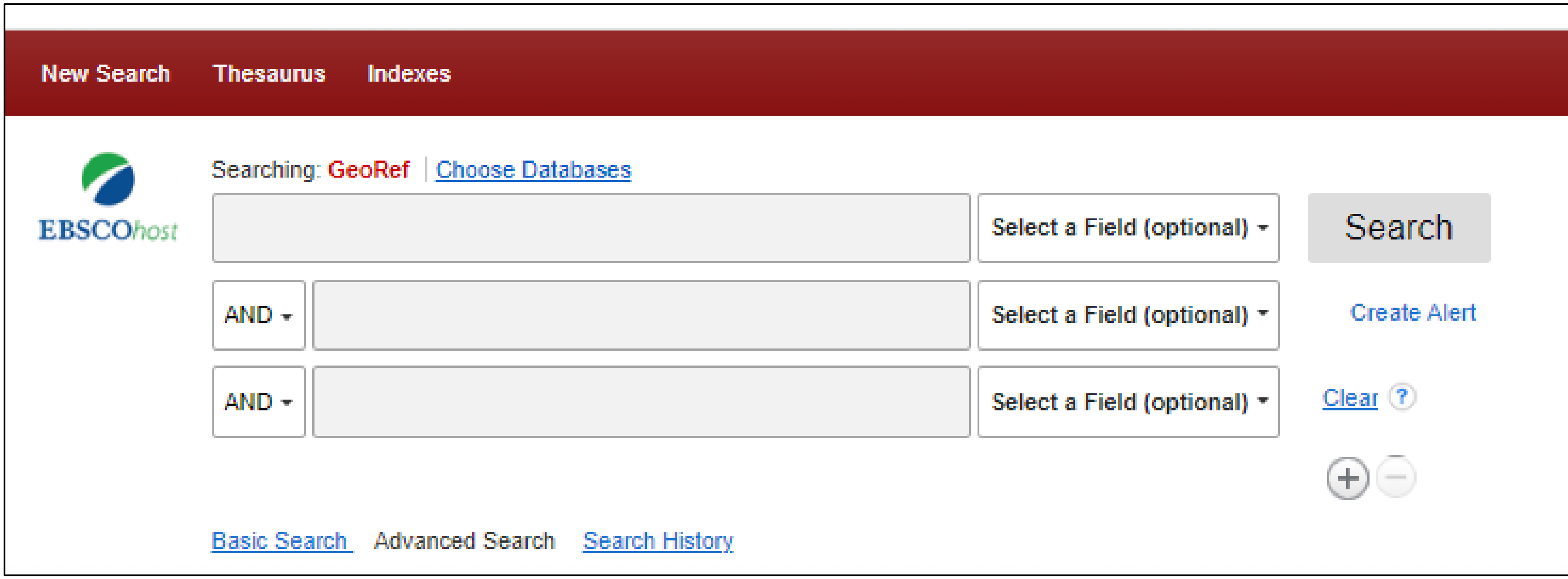

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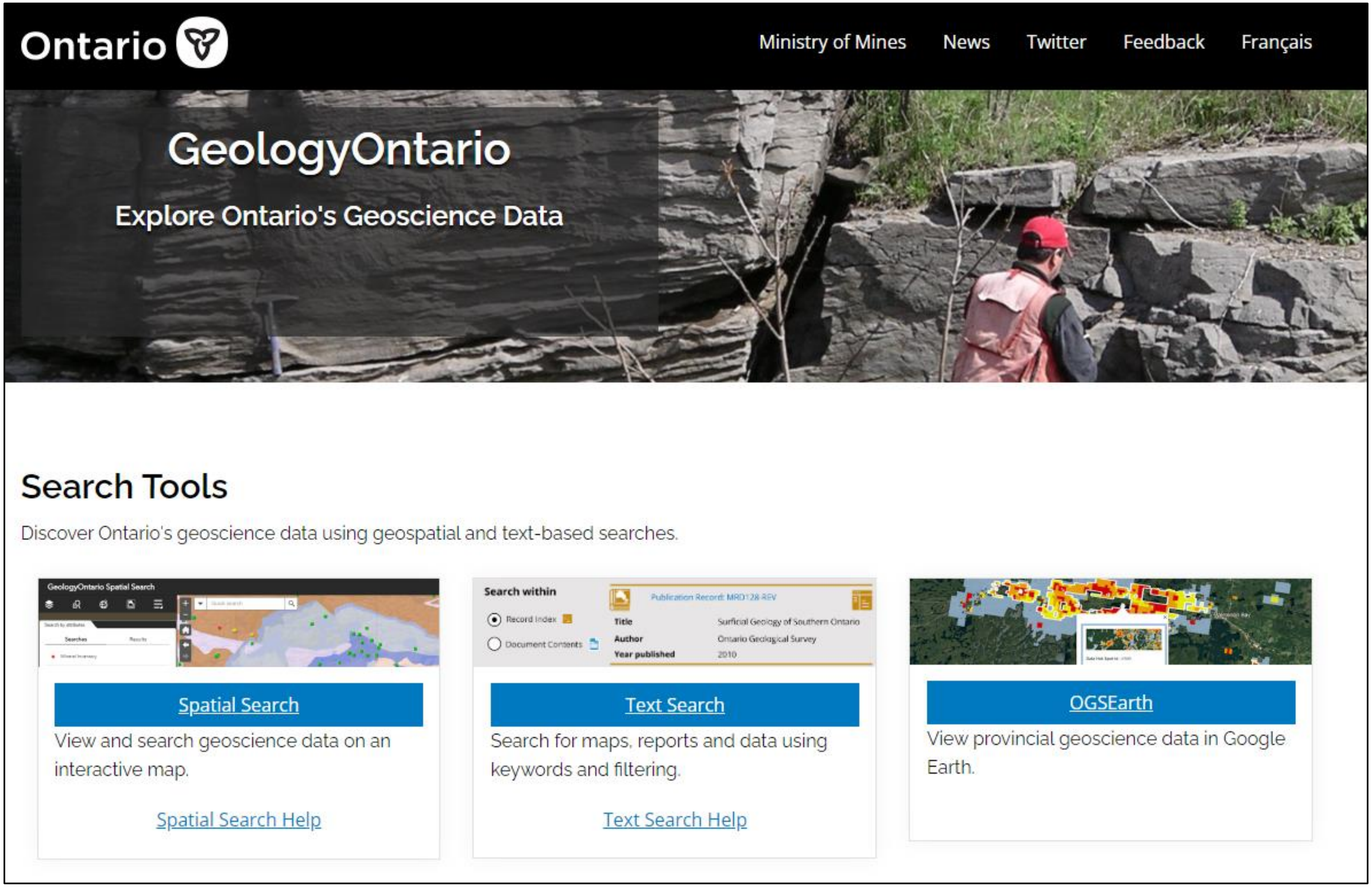

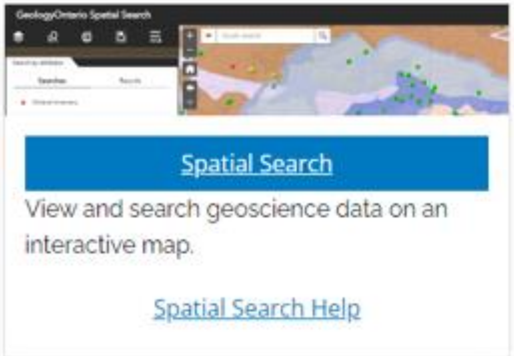
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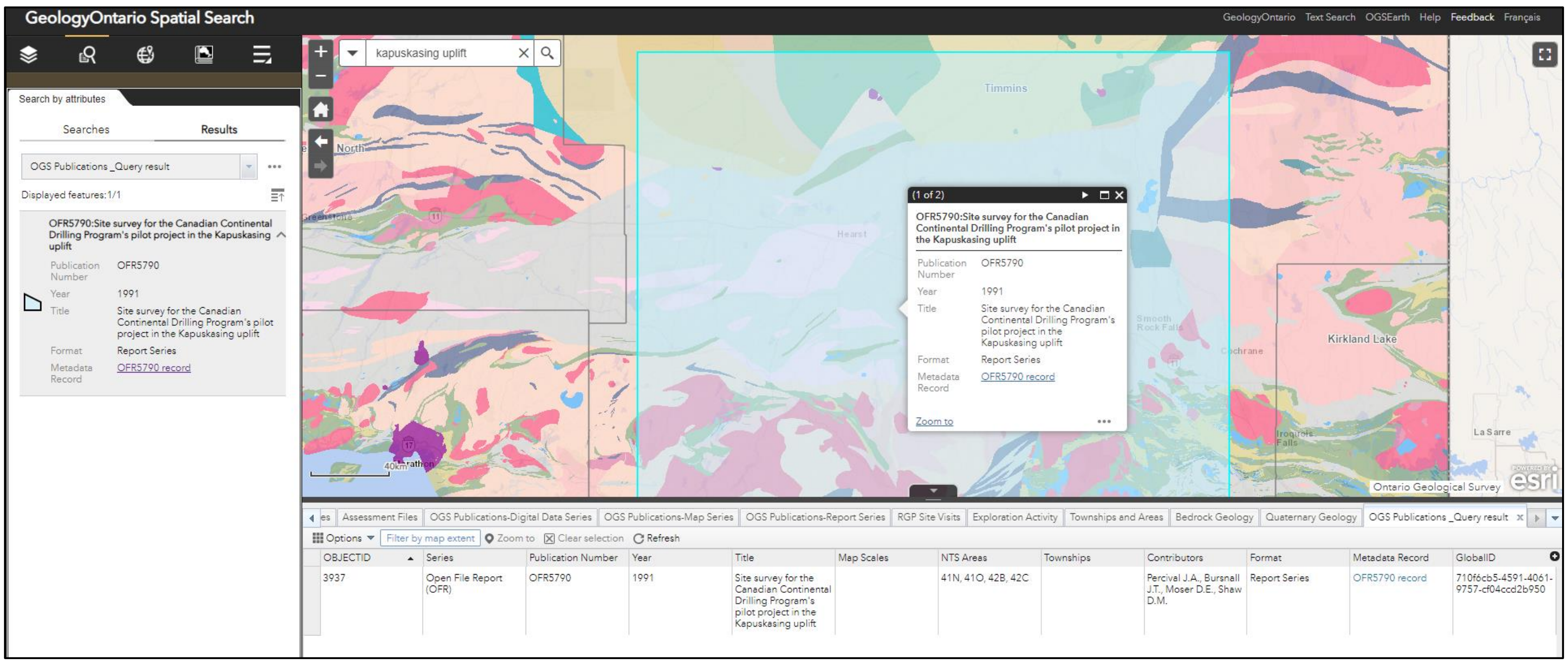
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Summary of Field Work and Other Activities 2018

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9. Project NE-17-007. Tectonometamorphic History of the Wawa–Abitibi Terrane: A Deep Crustal Transect Through the Kapuskasing Uplift

J. Kendrick[1], C. Yakymchuk[1] and M. Duguet[2]

[1]Department of Earth and Environmental Sciences, University of Waterloo, Waterloo, Ontario N2L 3G1
[2]Earth Resources and Geoscience Mapping Section, Ontario Geological Survey, Sudbury, Ontario P3E (

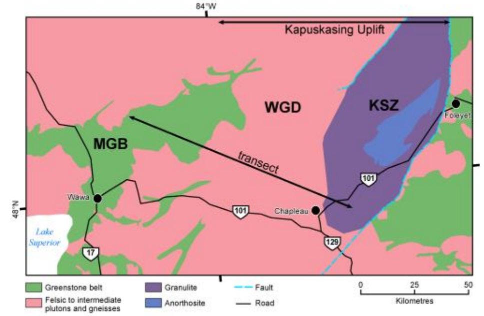

Figure 9.1. Schematic geological map of the Kapuskasing Structural Zone and surrounding region (*modified from* Ontario Geological Survey 2011) depicting the Kapuskasing uplift area. Abbreviations: KSZ, Kapuskasing Structural Zone; MGB, Michipicoten greenstone belt; WGD, Wawa gneiss domain.

INTRODUCTION

The Kapuskasing uplift in northern Ontario is a natural laboratory for exploring Archean cr
processes. This project will investigate the metamorphic rocks exposed in the area to better cons
tectonometamorphic history of this region using phase equilibrium modelling and garnet geochr
This information will be used to understand the timing of high-pressure granulite-facies metamo
the deep crust and determine its relationship to the overlying units. This report presents the proj
objectives and preliminary results of field work conducted as part of a PhD thesis project by the fi

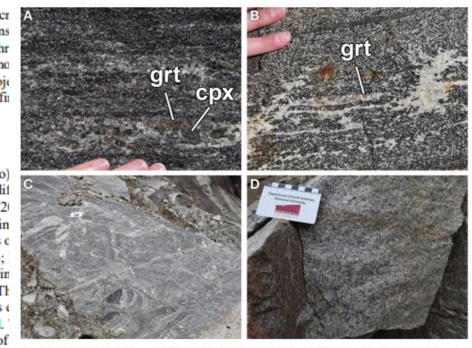

Photo 9.1. Outcrop photos from the Kapuskasing Structural Zone and the Wawa gneiss domain. **A**) A garnet- and clinopyroxene-bearing granulite-facies metabasite in the Kapuskasing Structural Zone (UTM 342704E 5311082N, Highway 101 between Chapleau and Foleyet). **B**) Leucosome with peritectic garnet in an outcrop of mafic granulite, Kapuskasing Structural Zone (UTM 342726E 5311091N, Highway 101 between Chapleau and Foleyet). **C**) An outcrop of strongly deformed tonalitic gneisses, Wawa gneiss domain (UTM 279815E 5306043N, Highway 101 between Wawa and Chapleau). **D**) Massive tonalite, Wawa gneiss domain (UTM 686779E 5312538N, Highway 101 between Wawa and Chapleau). Abbreviations: cpx, clinopyroxene; grt, garnet.

PURPOSE

Remnants of continental crust formed during the Archean Eon (4.0 to 2.5 billion years ago)
preserved around the world, and decades of research have shown that the crust of early Earth di
significantly from modern crust (Taylor and McLennan 1985, 1995; Rudnick 1995; Rollinson 2
One of the most significant unknowns about the evolution of our planet, and a subject of ongoin
in the international scientific community, is whether the modern process of plate tectonics was c
during the Archean (Condie and Kröner 2008; van Hunen and Moyen 2012; Turner et al. 2014;
2018). Plate tectonics may have operated differently or not existed during this time period, givin
continental crust with a distinct chemistry and architecture (Bédard 2006; Bédard, Harris and Th
2013). However, Earth's early crust remains relatively poorly understood. Most Archean rocks e
today represent the upper crust and the insights that can be gained from these rocks are limited.
exposed deep crust records essential information for understanding the formation and growth of
continents (Percival, Fountain and Salisbury 1992; Jamieson et al. 2011). In addition, gold depo
hosted in Archean upper crust are an important source of gold in Ontario and Canada; accessing
once beneath these deposits can provide important insights into mechanisms of gold mineralizat

GEOLOGY OF THE KAPUSKASING UPLIFT

The Abitibi and Wawa subprovinces of the Archean Superior Province are separated by the Kapuskasing uplift, an interpreted tilted crustal section exhumed during the Trans-Hudson Orogeny during the late Neoarchean and early Paleoproterozoic (Percival et al. 2012). The Kapuskasing uplift exposes a rare, nearly complete cross section of Archean crust, with the upper crust represented by the

Summary of Field Work and Other Activities, 2018, Ontario Geological Survey, Open File Report 6350, p.9-1 to 9-6.

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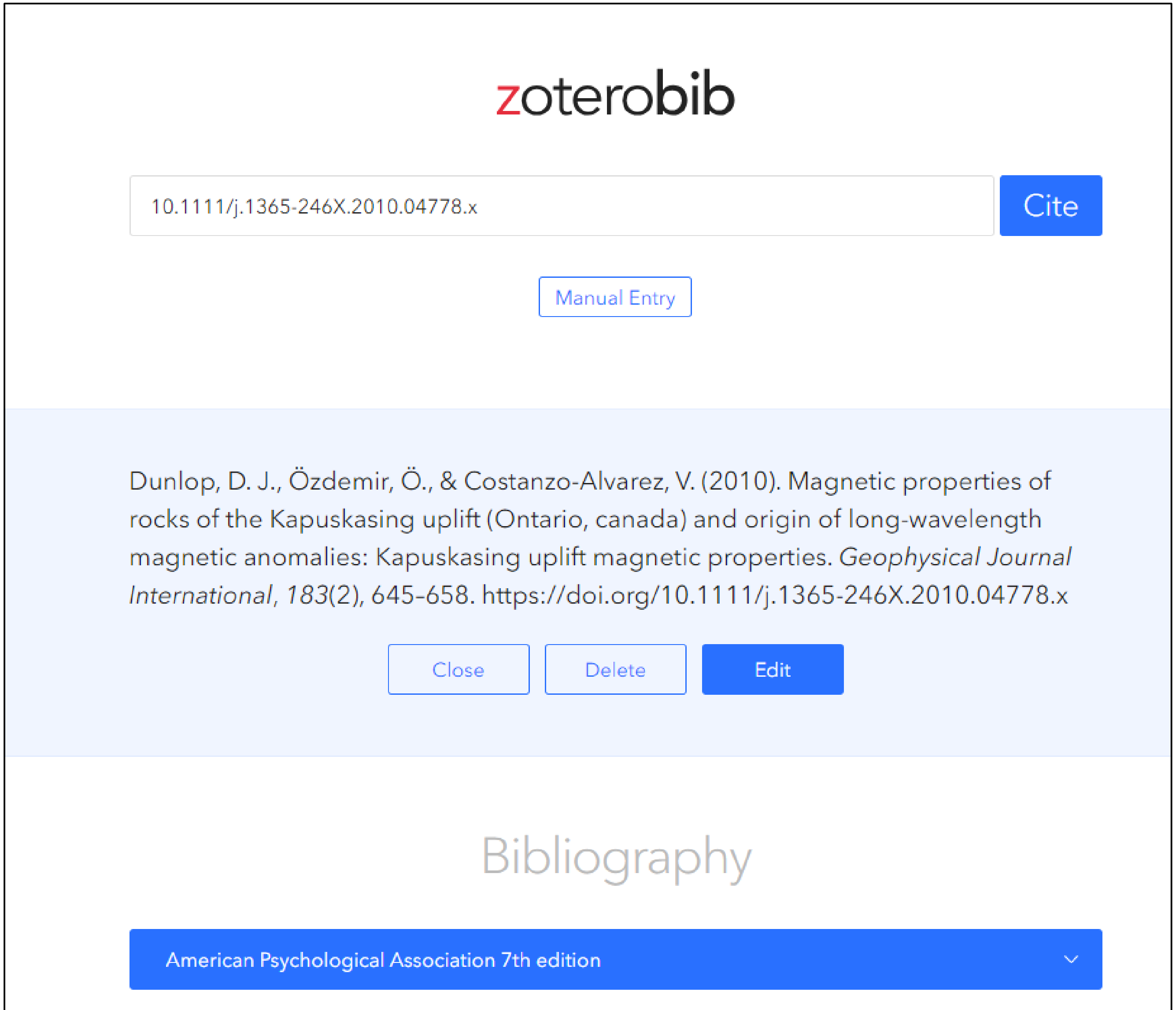

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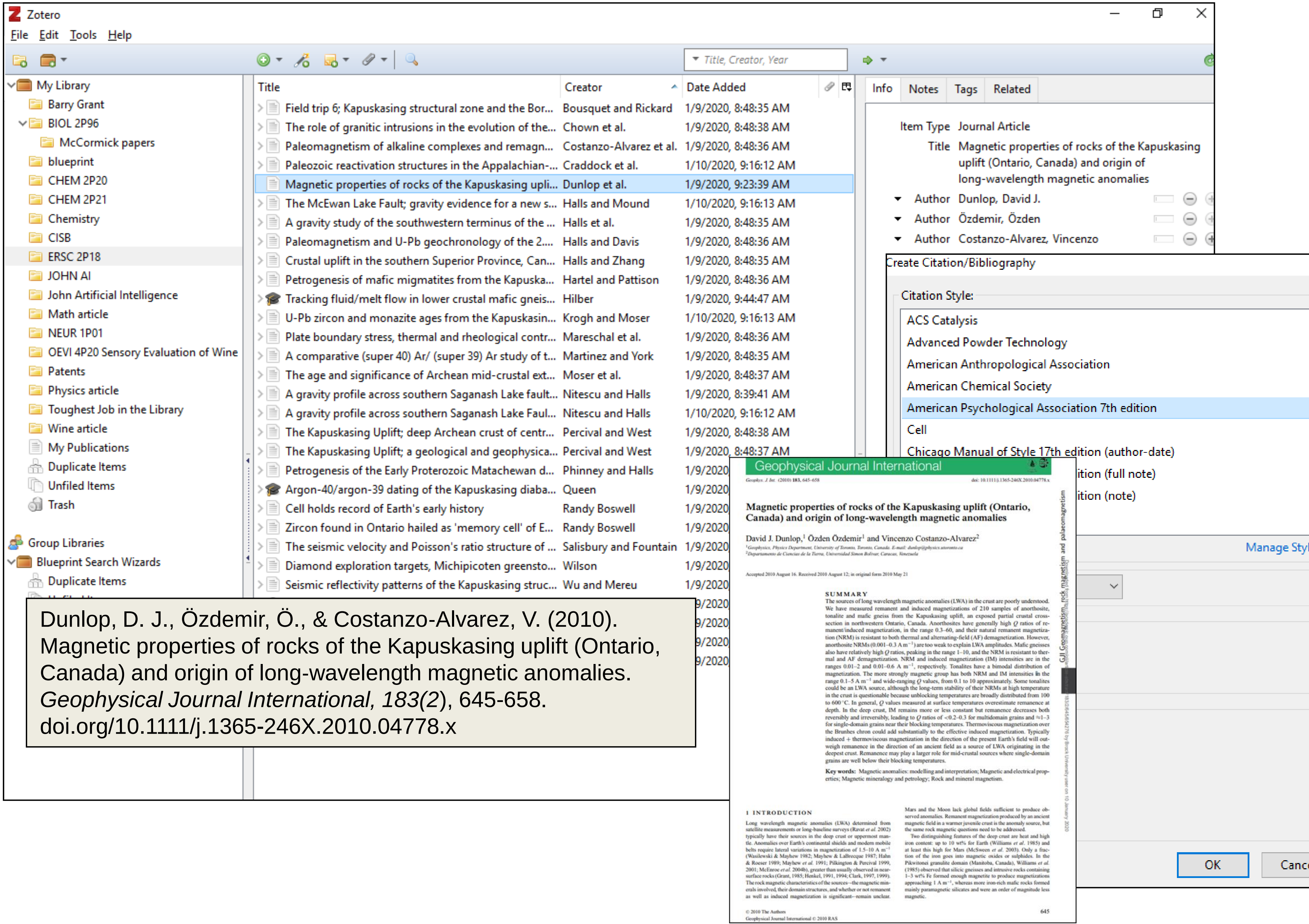

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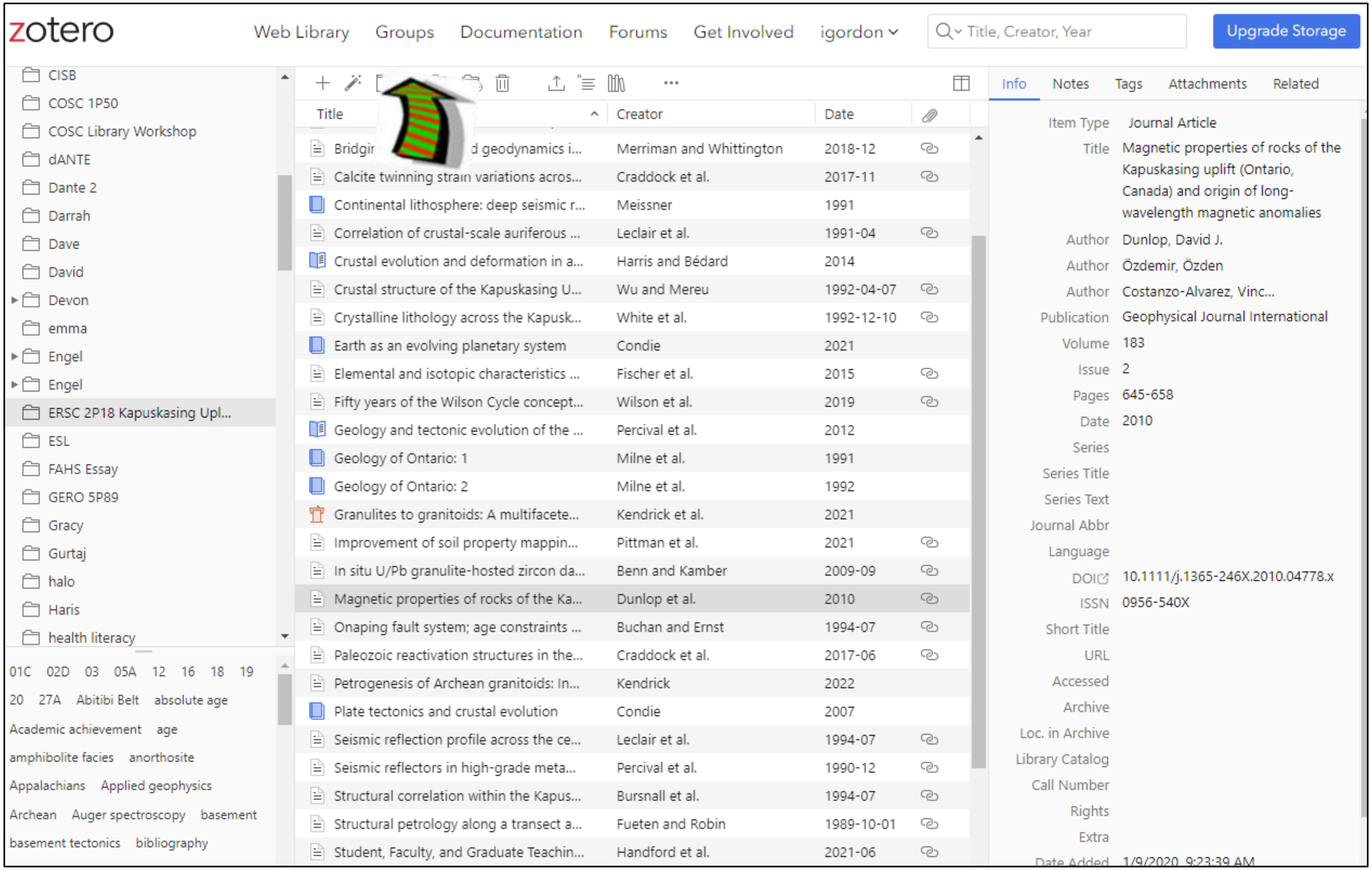
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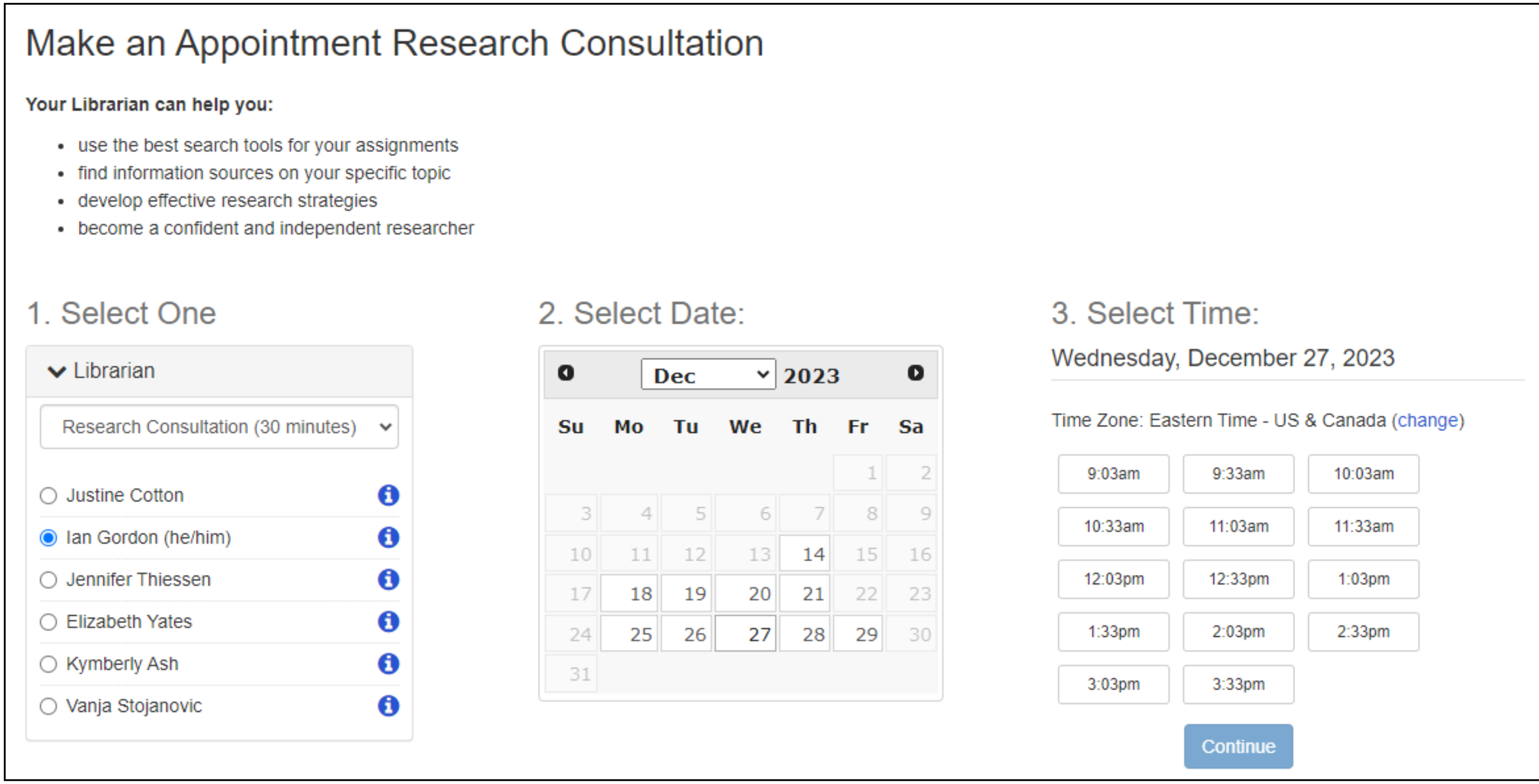
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